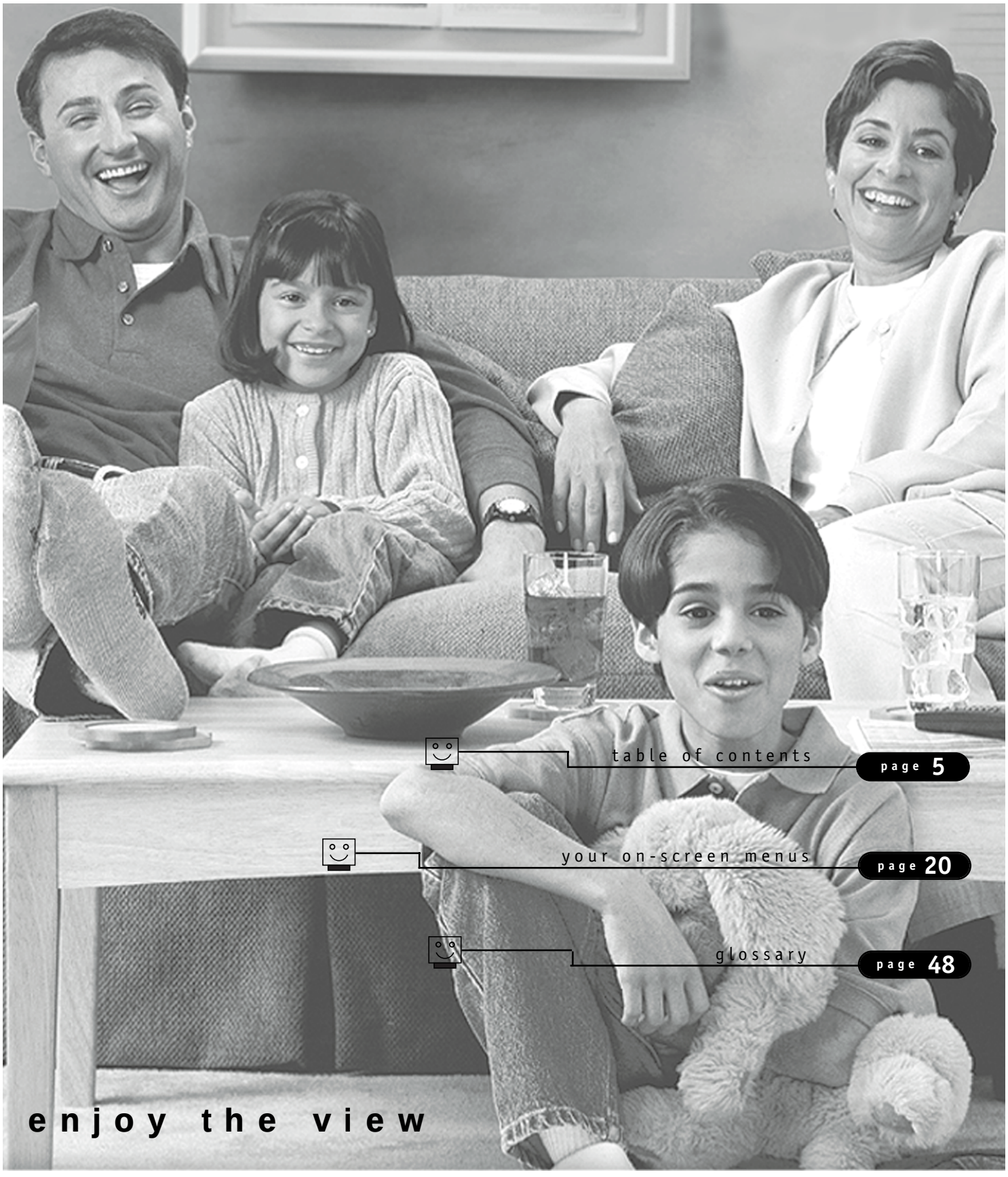
machine numbers | IQC60H95W | IQC50H95W | IQC60H94W | IQC50H94W

zenith



© Copyright 2001, Zenith Electronics Corporation.

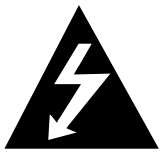
operating guide / warranty

RECORD YOUR MODEL NUMBER

The model and serial number of your Entertainment Machine™ are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____



WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Entertainment Machine™ is a registered trademark of Zenith Electronics Corporation.

IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories, Carts, and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

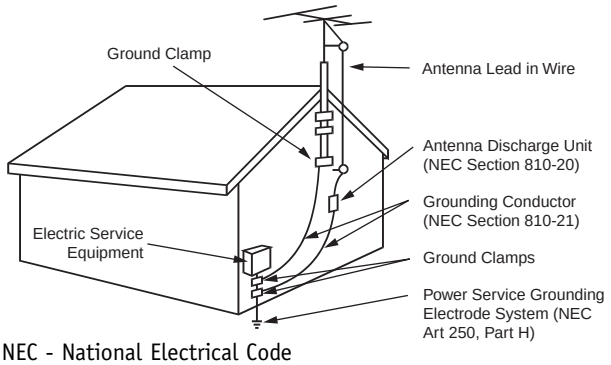
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Table of Contents

Turn to the next page to begin the TV setup.

Safety Warnings 2
Important Safety Information 3
Hookup Directory 6

Step 1. Hook Up TV

Rear Jack Panel 7
Antenna and Cable Service Hookup 8
Antenna Loop Out with Cable Box Hookup 9
VCR Hookup 10
VCR and Cable Service Hookup 11
DVD, S-VHS VCR and HD Set Top Box Hookup 12
External Stereo Hookup 13
Monitor Out Hookup 14

Step 2. Channel Search and Reception Setup

Signal Source Selection 15
Auto Program 16
(Select Antenna, or cable service and perform channel search)
Remote Button Functions 17
On-Screen Displays 18
Front Panel Controls 19
On-Screen Menus Overview 20

Step 3. Customize your TV's Features

Setup Menu

Language 22
Channel Add/Delete 23
Channel Review 24
Clock Set 25
Digital Setup 26
Component Input 27

Special Menu

Channel Labels 28
Source ID 29
Favorite Channels 30
Parental Control 31
Security Timer 32
Captions/Text 33
Background 34
Video Menu 35
Audio Menu 36
Theater Menu 37
Picture-In-Picture Overview 38
Remote Control Programming 41
Maintenance 45
Troubleshooting 46
Glossary 48
Warranty . . . . . .Back Cover

206-3597-0

Note: Design and specifications described herein are subject to change without prior notice.

Hookup Directory

IMPORTANT!! Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

GENERAL HOOKUP INFORMATION

About your Jacks For general information about the jacks on your Entertainment Machine, go to . . . . . page 7

INPUT HOOKUP OPTIONS

Antenna/Cable If you are using an antenna or have direct cable service, go to . . . . . page 8

Cable Box If you are using a cable box, go to . . . . . page 9

VCR If you are using a VCR, go to . . . . . page 10

VCR and Cable Box If you are using a VCR with a Cable Box, go to . . . . . page 11

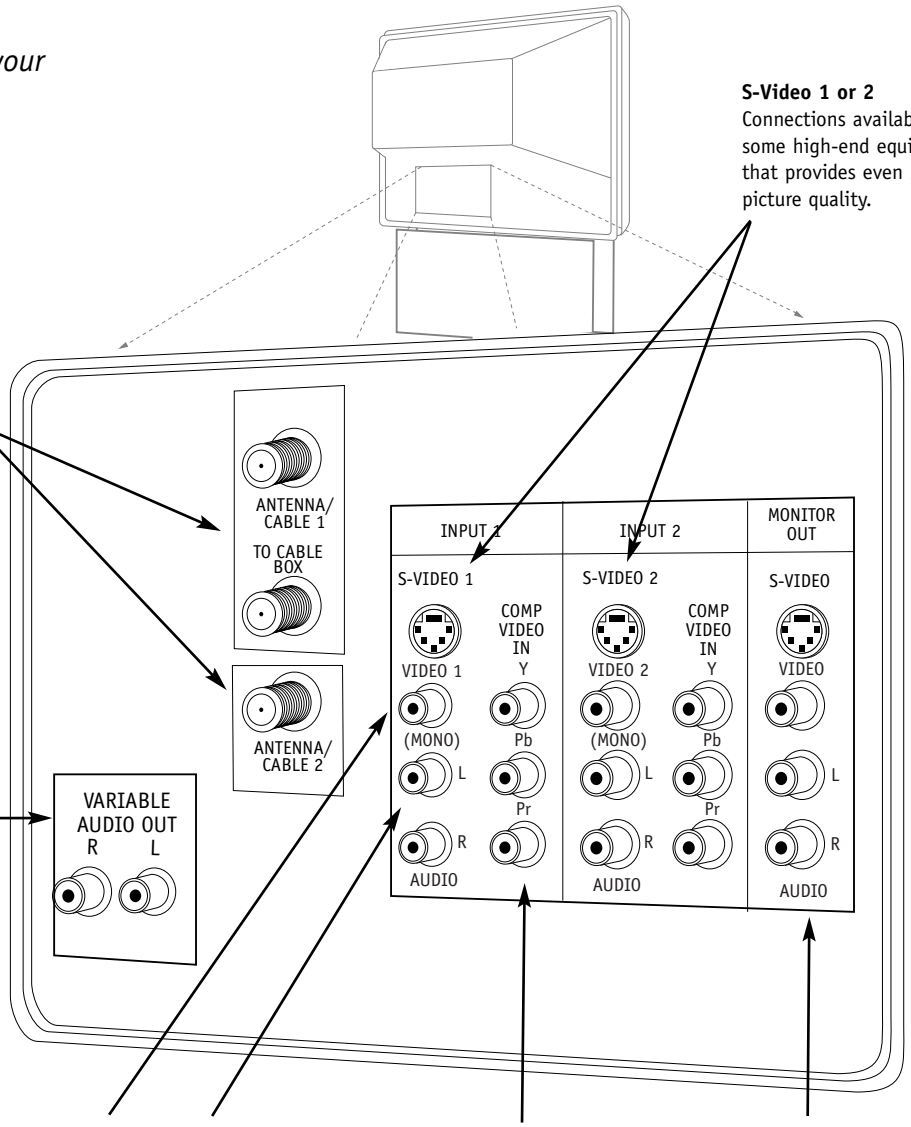
DVD Player/HDSTB If you are using a DVD Player, S-VHS VCR, or High Definition Set Top Box, go to . . . . . page 12

External Stereo To hook up your Entertainment Machine to an external stereo, go to . . . . . page 13

Monitor Out For Monitor Out Hookups, go to . . . . . page 14

Source Connection Jacks Overview

Connecting sources to your Entertainment Machine



S-Video 1 or 2
Connections available for some high-end equipment that provides even better picture quality.

RF Connectors: Antenna/Cable 1, Antenna/Cable 2, and Cable Box
Used to connect cable service to the television, either directly or through your cable box.

Variable Audio Out
Used to connect either an external amplifier or add a sub-woofer to your surround sound system.

Video 1 or 2
Connects the video signals from various types of equipment.

Right/Left Audio
Used for stereo sound from various types of equipment.

Y, Cb, Cr Component Video
Some top-of-the-line DVD players use what is called "component video," for extremely accurate picture reproduction. *Refer to your DVD manual for further information.*

Monitor Out
These jacks provide fixed audio and video signals which are used for recording. Use the S-Video Output for high quality video output.

S-Video Output may be used for recording only when the input is of S-Video type.

Mini glossary

JACK	A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-coded.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television.

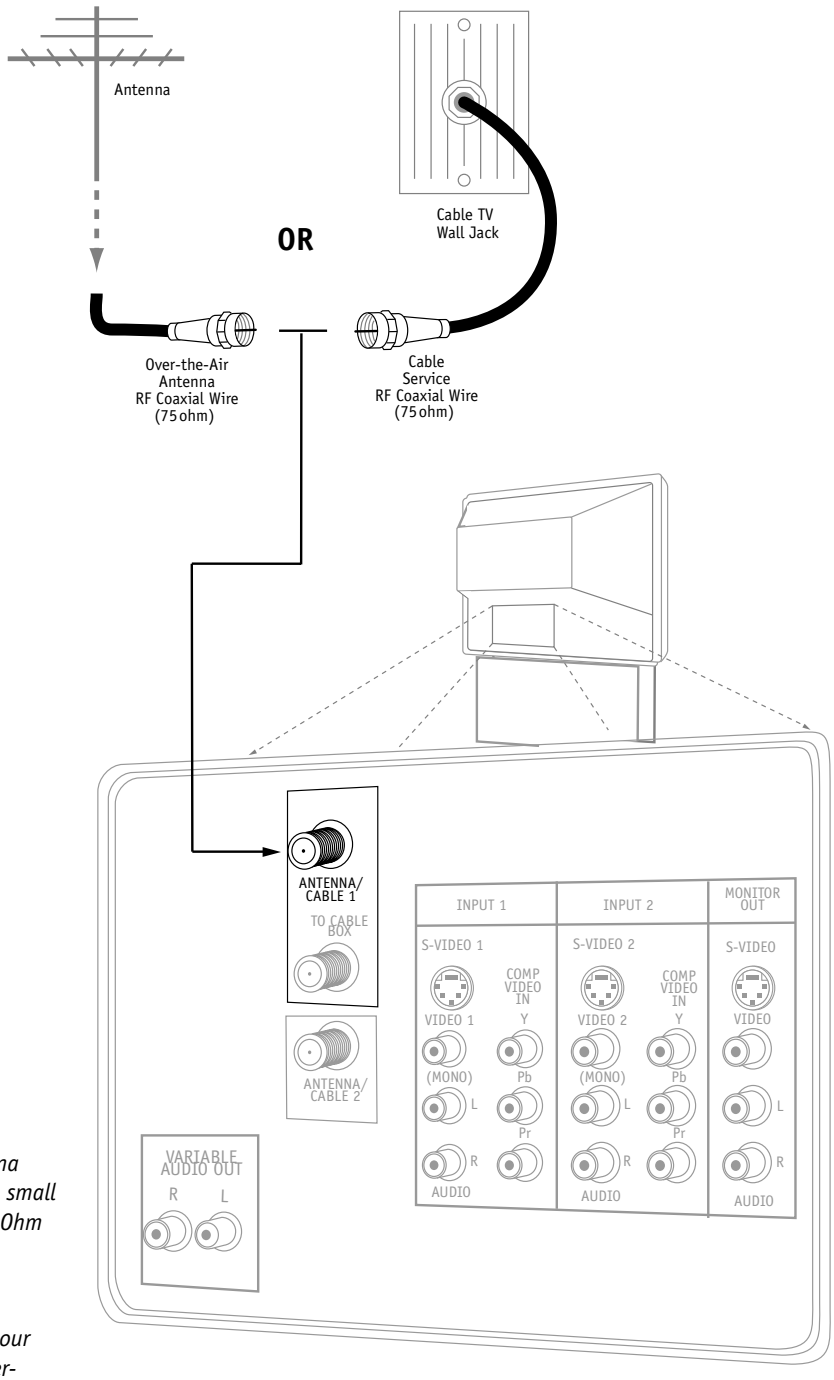
206-3597-A

Hook Up Direct Cable TV or Antenna

1 Locate the Antenna/Cable 1 jack on the back of your Entertainment Machine.

2 Connect the cable that runs from the wall directly to this jack.

3 Turn to page 15 to continue setting up your Entertainment Machine.



If you receive your RF signal through an antenna that is several years old and connects with two small prongs, you will need to purchase a 300 to 75 Ohm adapter. It should be available from your local electronics dealer.

Zenith recommends using a 75 Ohm cable for your antenna connections in order to prevent interference.

206-3597-A

Hook Up Cable Box

Some cable services require the use of a cable box to decode premium channels and pay-per-view. Using the "To Cable Box" to Decoder option, and programming your remote, you can connect your cable box so that you only need your MBR remote to control all the channels. By connecting cable directly to your Entertainment Machine, then running it out to the cable box and back, you make the cable box another source to choose from in the Source selection on your remote.

1 Locate the Antenna/Cable 1 jack on the back of your TV. Connect the cable that runs from the wall directly to the jack. Now find the To Cable Box jack.

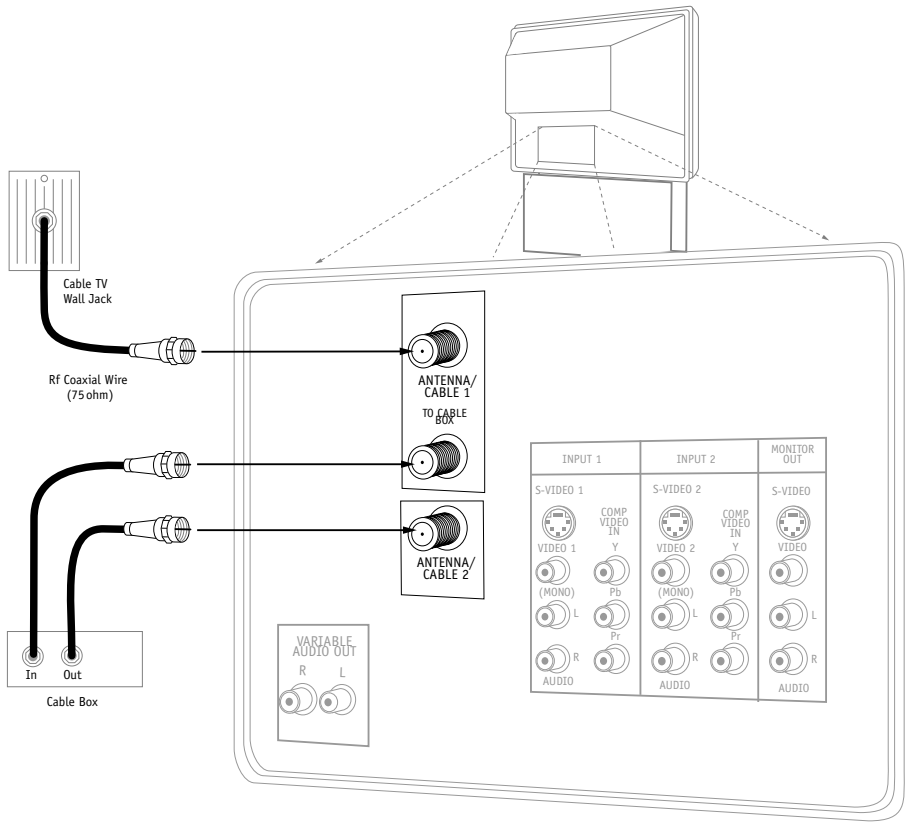
2 Connect the cable from this jack to the Input jack on the back of your cable box.

3 Locate the Output jack on the back of your cable box. Connect this to the Antenna/Cable 2 jack on the back of your TV.

4 To view the premium stations, set the channel number on your cable box to HBO, CINEMAX, SHOWTIME, etc. Then press the Source button on your remote and select the other Cable source (Ant 2).

To view the non-premium channels press the Source button and select Ant 1. Then run Auto Program to check for all available channels and store them in memory.

5 Turn to page 15 to continue setting up your Entertainment Machine.



To receive premium channels, run Auto Program on the second source that is set to receive channels.

206-3597-0

Hook Up VCR

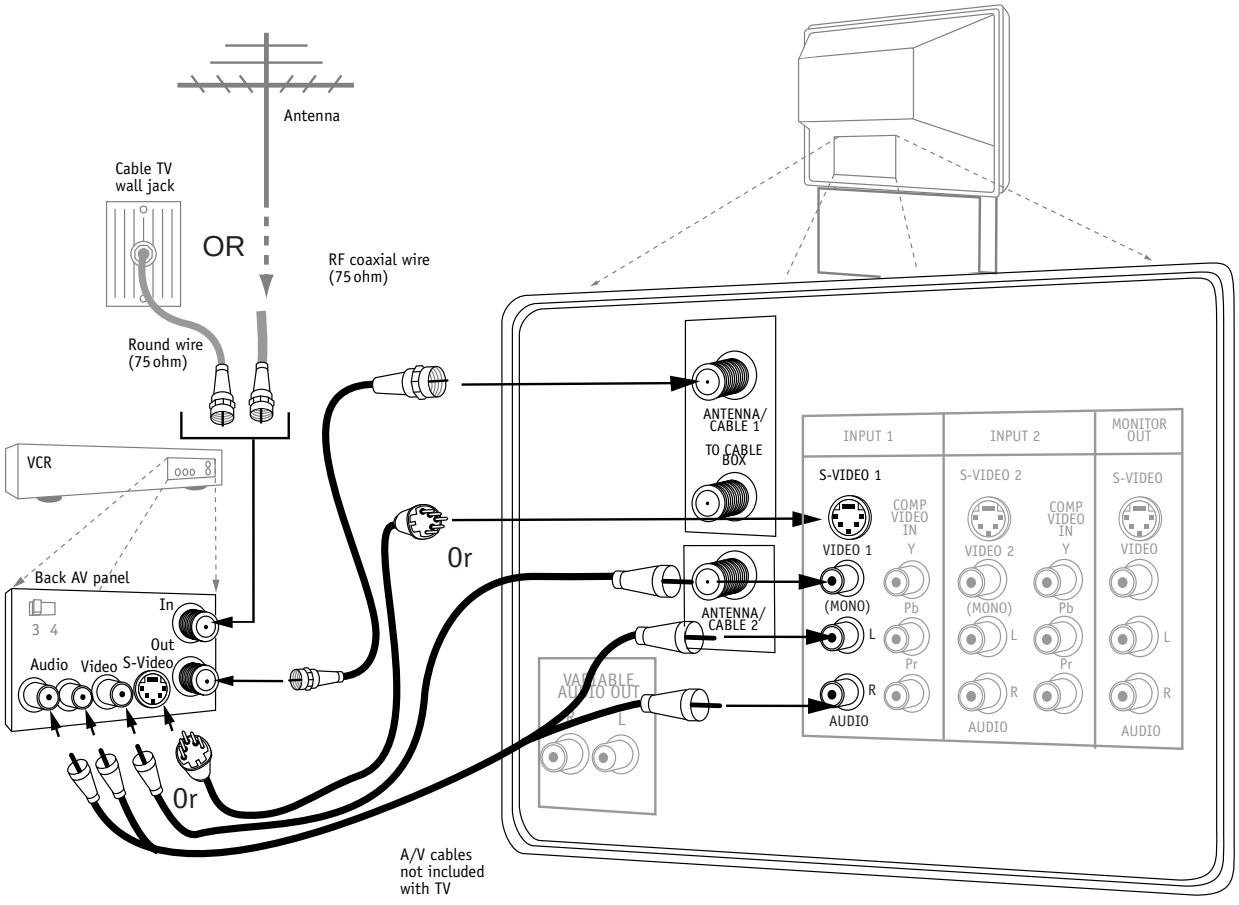
1 Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

2 Locate the Antenna/Cable 1 jack on the back of your Entertainment Machine. Connect the cable coming from the RF or VHF/UHF/CATV Out jack on the back of your VCR directly to this jack.

Find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.

You may connect either the composite video or the S-video cables to your Entertainment Machine. (Do not connect BOTH the composite and the S- Video cables. In the event that you connect both composite and S-Video cables, only the S-video will work.)

3 Turn to page 15 to continue setting up your Entertainment Machine.



If you want to receive your signals on Channel 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna/Cable 1 jack on the back of your Entertainment Machine.

For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 29.

Hook Up Cable Box with VCR

1 Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

2 Locate the Antenna/Cable 1 jack on the back of your TV. Connect the cable that runs from the RF or VHF/UHF/CATV Out jack on the back of your VCR directly to this jack.

3 Now find the To Cable Box jack of your Entertainment Machine. Connect a cable from this jack to the Input jack on the back of your cable box.

4 Locate the Output jack on the back of your cable box. Connect this to the Antenna/Cable 2 jack on the back of your TV.

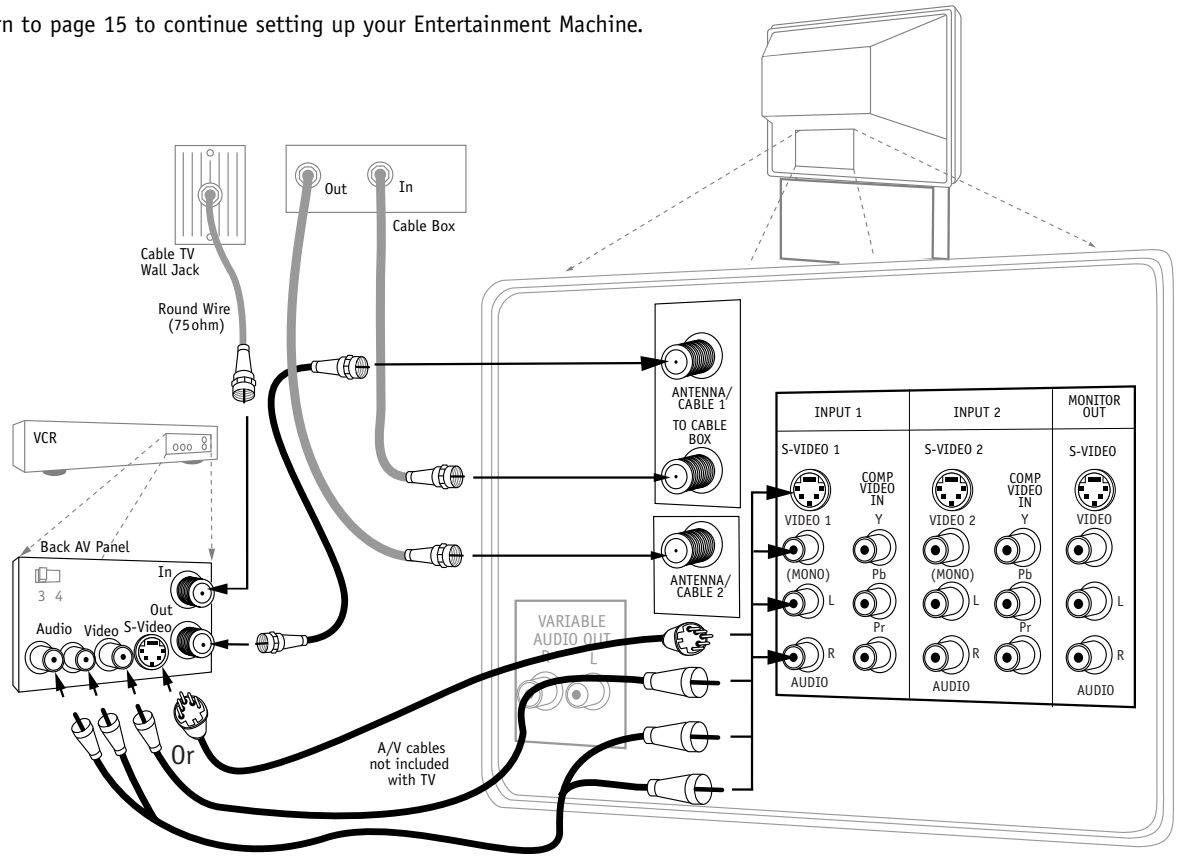
To view the premium stations, set the channel number on your cable box to HBO, CINEMAX, SHOWTIME, etc. Then press the Source button on your remote and select the other Cable source (Ant 2).

To view the non-premium channels, press the Source button and select Ant 1. Then run Auto Program to check for all available channels and store them in memory.

5 Find the composite video and audio jacks on the back of your VCR, and connect them as shown below, following the instructions provided with your equipment.

You may connect either the composite video or the S-video cables to your Entertainment Machine. (Do not connect BOTH the composite and the S- Video cables. In the event that you connect both composite and S-Video cables, only the S-video will work.)

6 Turn to page 15 to continue setting up your Entertainment Machine.



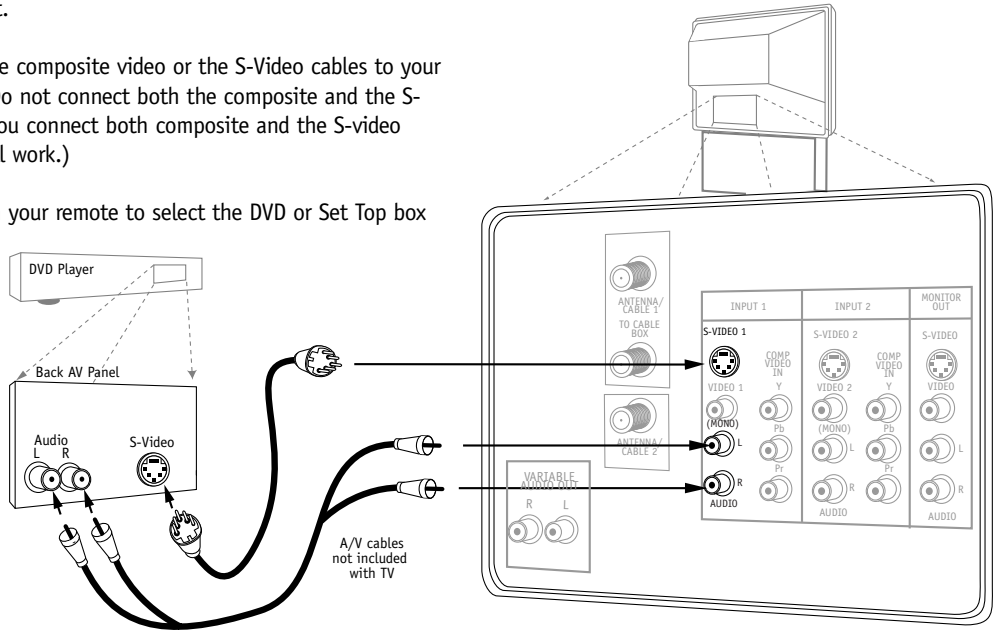
206-3597-0

Hook Up DVD Player and HD Set Top Box

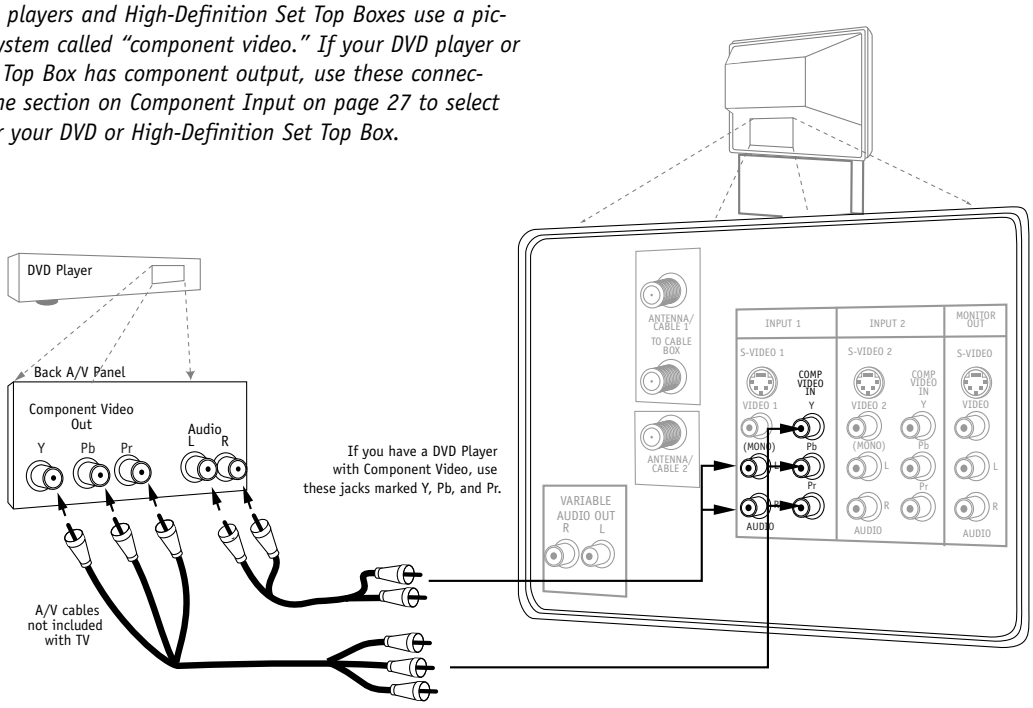
1 Find the audio and composite or S-Video jacks on the back of your DVD Player and connect them as shown below, following the instructions provided with your equipment.

2 You may connect either the composite video or the S-Video cables to your Entertainment Machine. (Do not connect both the composite and the S-Video. In the event that you connect both composite and the S-video cable, only the S-video will work.)

3 Use the SOURCE button on your remote to select the DVD or Set Top box source.



Some high-end DVD players and High-Definition Set Top Boxes use a picture reproduction system called "component video." If your DVD player or High-Definition Set Top Box has component output, use these connections. Then go to the section on Component Input on page 27 to select the color system for your DVD or High-Definition Set Top Box.



For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 29.

Hook Up External Stereo

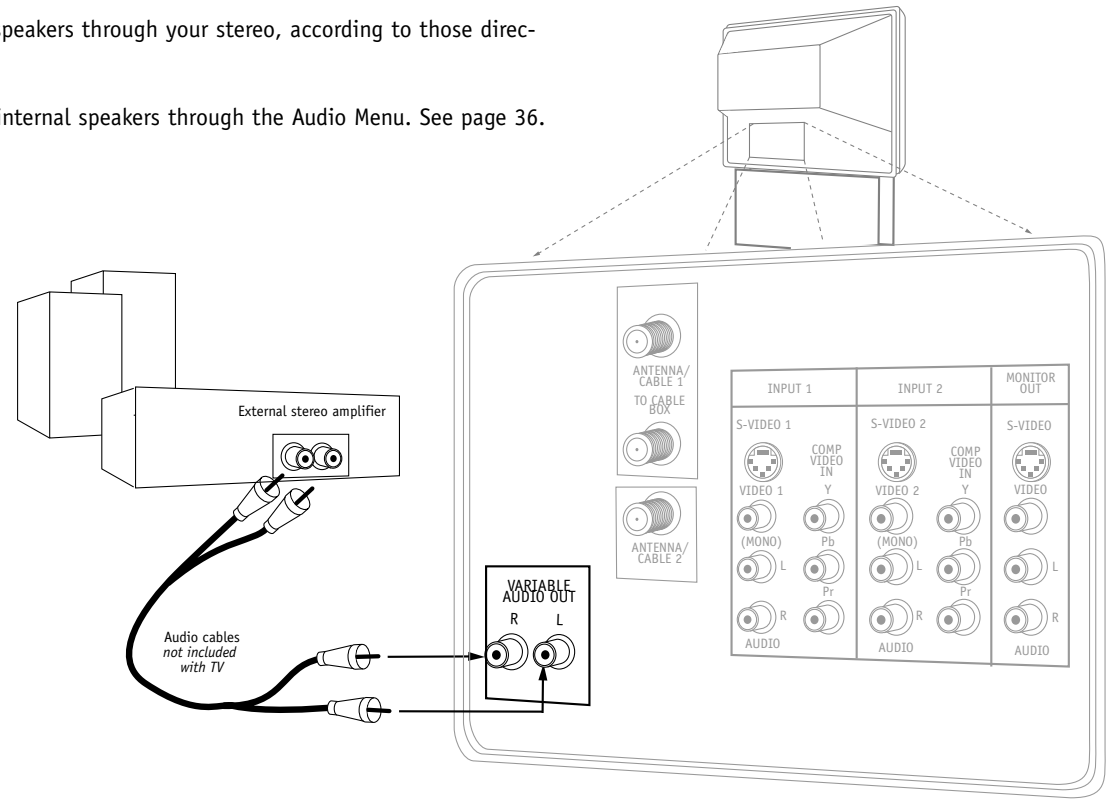
Hook up Left/Right Front Speaker to Amplifier System.

1 Locate the Variable Out jacks on the back of your Entertainment Machine and the Input jacks on the back of your stereo's amplifier.

2 Connect the two jacks, making sure that the right and left channels are placed correctly.

3 Set up your speakers through your stereo, according to those directions.

4 Turn off the internal speakers through the Audio Menu. See page 36.



206-3597-0

Hook Up Monitor Out

The Monitor Out jacks on your Entertainment Machine allow you to record to a second VCR!

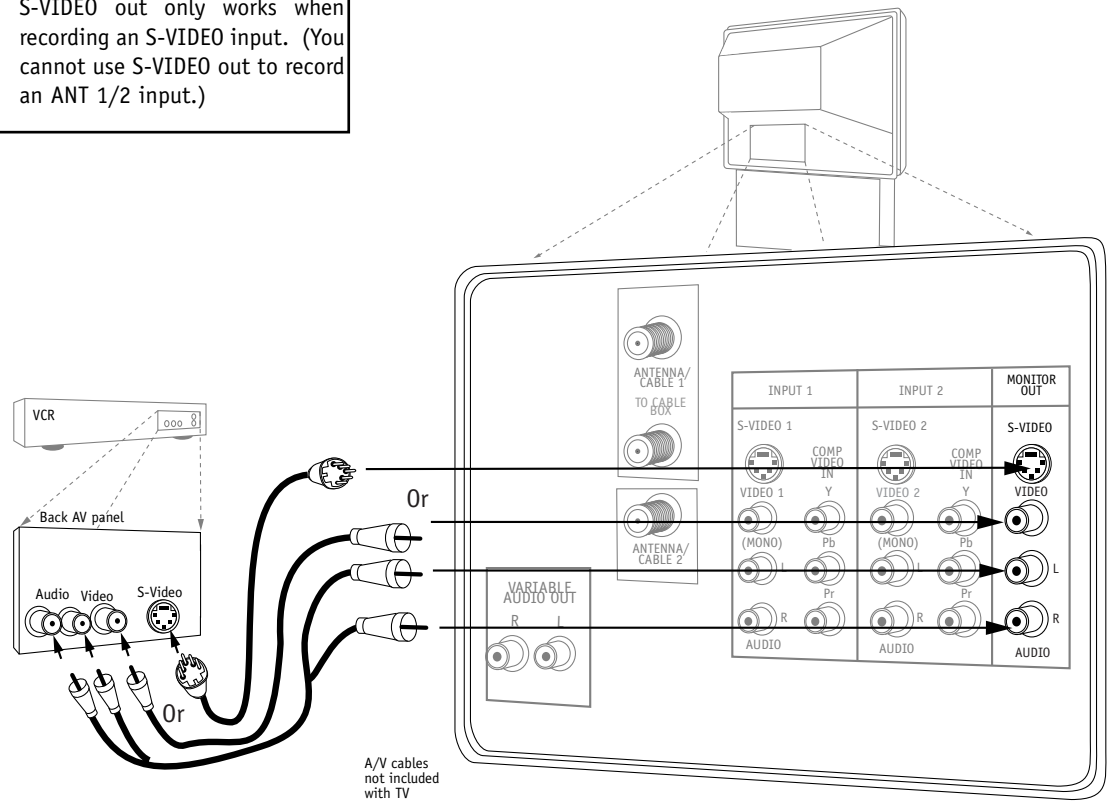
1 Locate the Monitor Out jacks on the back of your Entertainment Machine and the Input jacks on the back of your VCR.

2 Connect the Input jacks from your VCR to the Monitor Out jacks on the back of your Entertainment Machine as shown in the diagram to the right.

You may connect either the composite video or the S-video cables to your Entertainment Machine. (Do not connect BOTH the composite and the S- Video cables. In the event that you connect both composite and the S-Video cables, only the S-video will work.)

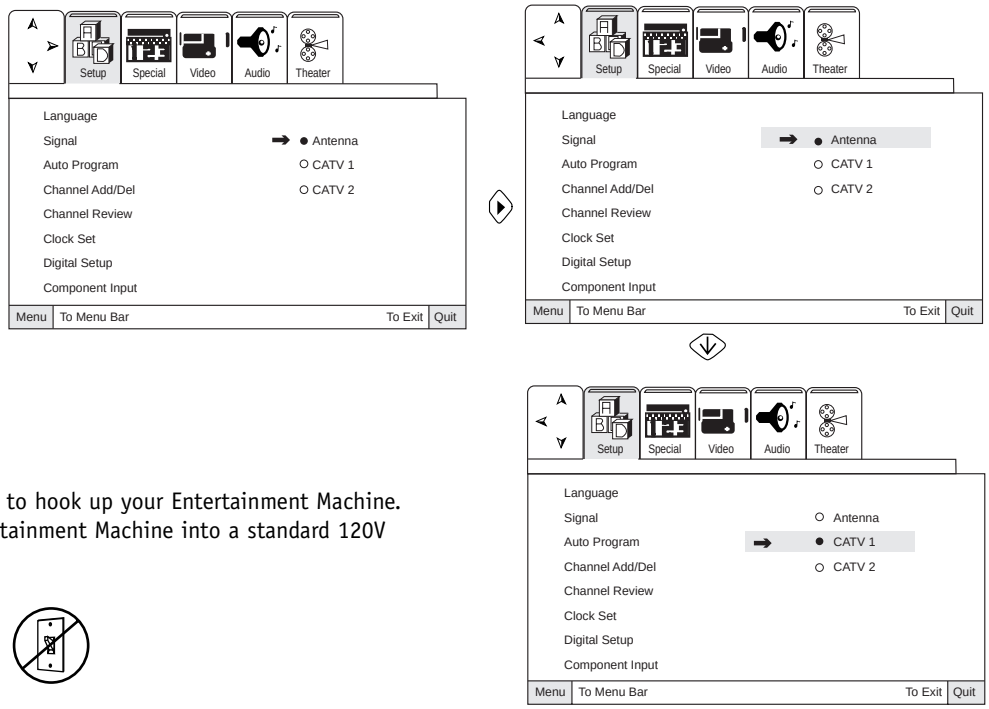
3 Set your VCR to record from the Video (or S-Video) input. See your VCR operating manual for details.

NOTE: S-VIDEO out only works when recording an S-VIDEO input. (You cannot use S-VIDEO out to record an ANT 1/2 input.)

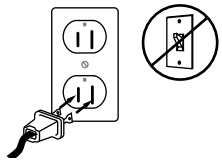


206-3597-0

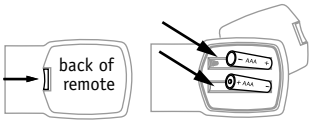
Signal Source Selection



1 Use pages 7-14 to hook up your Entertainment Machine. Plug your Entertainment Machine into a standard 120V 60Hz outlet.



2 Remove the back of the remote and put in two AAA batteries. Make sure batteries are properly installed (check the +/– signs).



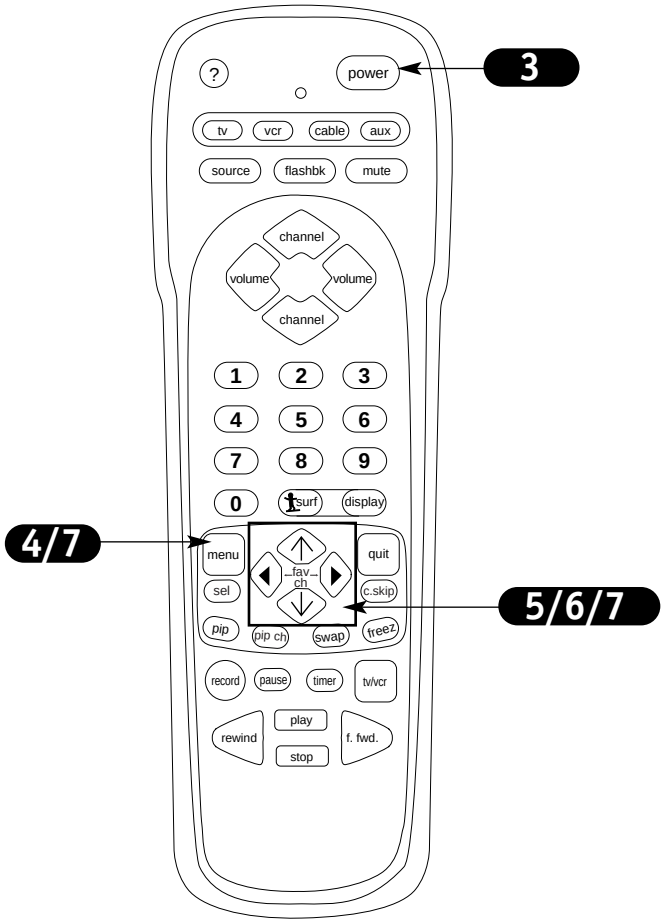
3 Turn on your Entertainment Machine by pressing the POWER button on your remote.

4 Press the MENU button on your remote.

5 Select Signal using the DOWN arrow button.

6 Activate the Signal Menu item by pressing the RIGHT arrow button on your remote.

7 Select the signal source of your Entertainment Machine. If your signal comes from an outdoor antenna, select ANTENNA by pressing the DOWN arrow button. If your signal comes from a cable TV service, select CATV 1 by pressing the DOWN arrow button. When you have made your selection, press the MENU button to return to the Setup Menu.

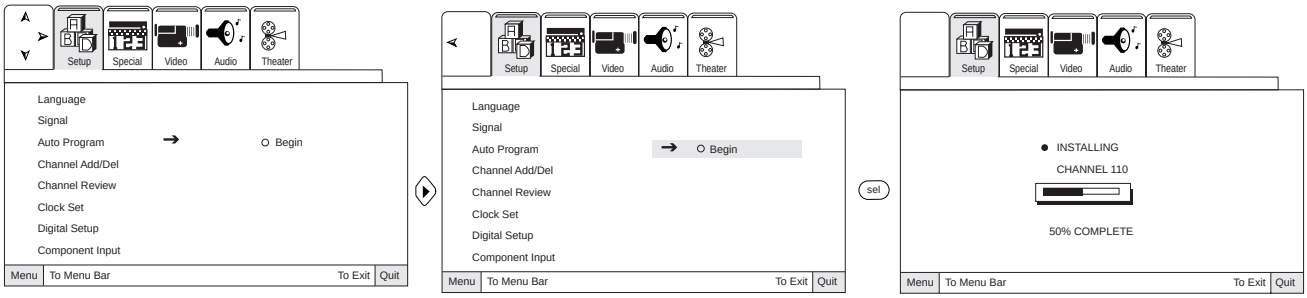


Continue to the next page to run Auto Programming.

206-3597-0

Auto Programming

Continued from previous page.



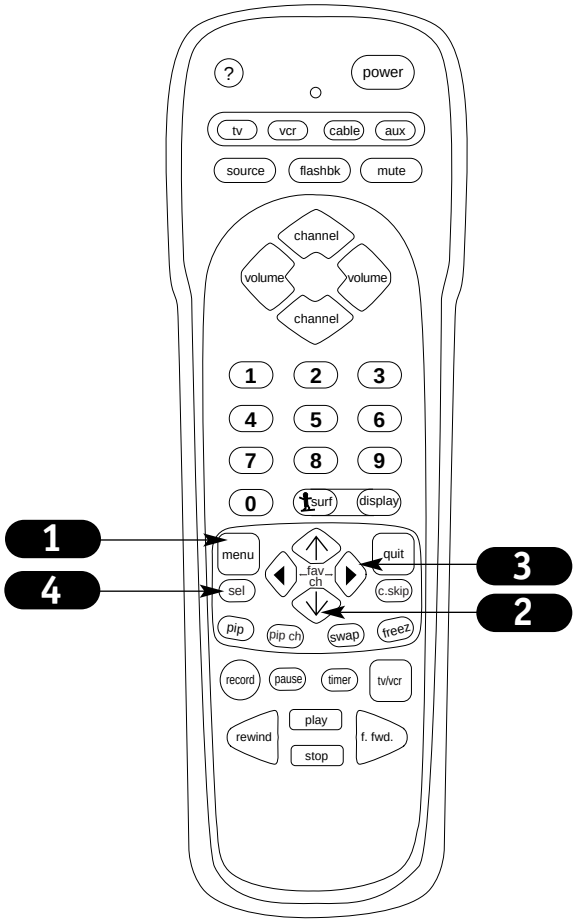
1 Press the MENU button on your remote to display the Setup Menu. (If the Menu is already on-screen, skip this step.)

2 Select Auto Program by pressing the DOWN arrow button on your remote.

3 Press the RIGHT arrow button to select Auto Program.

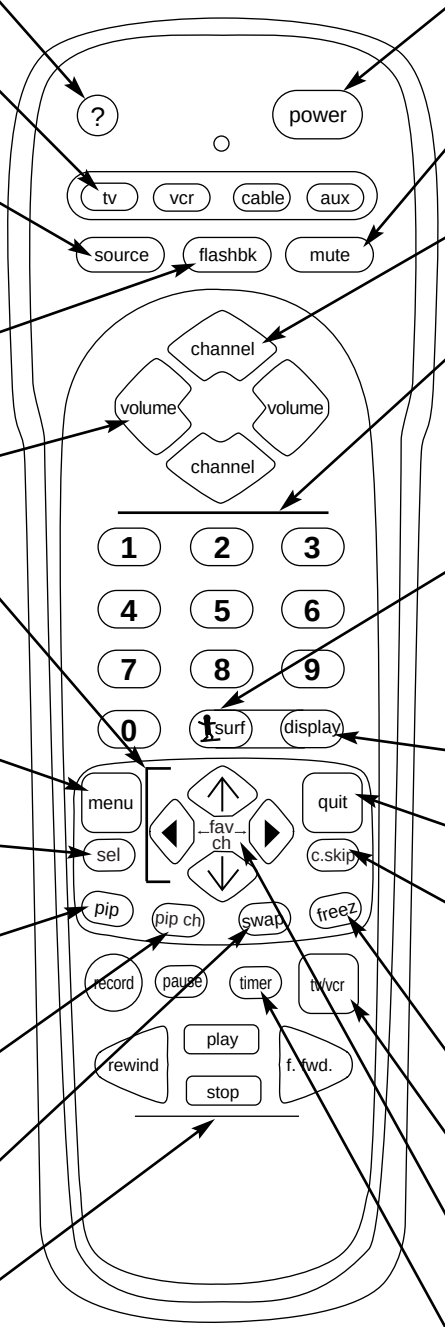
4 Press the SELECT button on your remote to begin Auto Programming.

If certain CATV channels are not received clearly in CATV1 mode, set signal to CATV2 mode.



Button Functions on Your Remote

All the buttons on your remote, and what they do



HELP
Activates the on-screen Help feature.

MODE BUTTONS
Adjust which mode your remote is working in, TV, Cable Box, or VCR.

SOURCE
Cycles through the available audio/video sources on your Entertainment Machine.

FLASHBK
Return immediately to the last channel viewed.

VOLUME (Left/Right)
Decreases/increases the sound level

ARROW BUTTONS
Allows you to move through on-screen menu choices. When Menus inactive, arrow buttons activate Favorite Channels feature. (Must set Favorite Channels first)

MENU
Displays on-screen menus.

SEL
Press to select TV menu features.

PIP
Activates the PIP feature.

PIP CH.
Select between Main Picture and PIP display tuning control.

SWAP
Swaps between your Main Picture and the PIP Display.

RECORD, PAUSE, REWIND, PLAY, STOP, F. FWD
These buttons are used to control your VCR (even if your remote is in TV mode!).

Remote Control Part Number
MBR 3476Z
924-10092

POWER
Turn your Entertainment Machine and all other programmed equipment on or off.

MUTE
Press once for Soft Mute, and again for full Mute.

CHANNEL (Up/Down)
Goes to next higher/lower available channel.

NUMBER KEYPAD
For direct channel selection and programming functions. To add a 3 digit channel number, press the number wait until 2 dashes show up to the right of that number then add the other two numbers.

SURF
Used in entering program numbers for multiple program channels such as 2—1. Used for HDTV or SDTV broadcasts only.* Additionally, the button toggles the PIP display between single mode and surf mode.

DISPLAY
Shows current on-screen settings.

QUIT
Leaves programming menus and clears screen of displays.

C. SKIP
Channel Skip. Tunes Entertainment Machine to last channel viewed. Tunes back to original channel after 30, 60, 90, 120, 150, or 180 seconds.

FREEZ
Freezes and strobe PIP display.

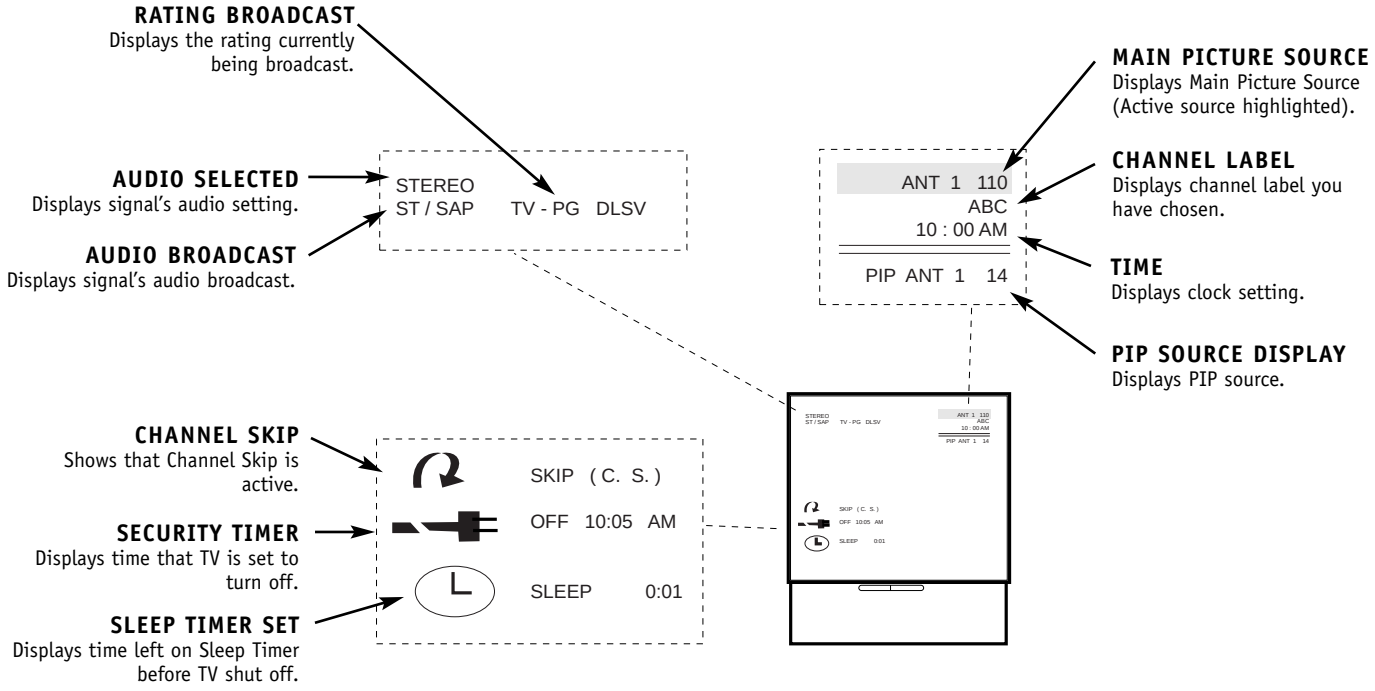
TV/VCR
Selects TV or VCR as your signal source.

FAVORITE CHANNEL (RIGHT/LEFT ARROWS)
Select among 6 different channel groupings.

TIMER
Activates Sleep Timer.

*Note: A digital broadcaster can transmit multiple programs on a single channel. These programs are distinguished by a unique "sub-channel" number, separated when entering digits by the "—" button on your remote.

This page describes your on-screen display options



Front Panel

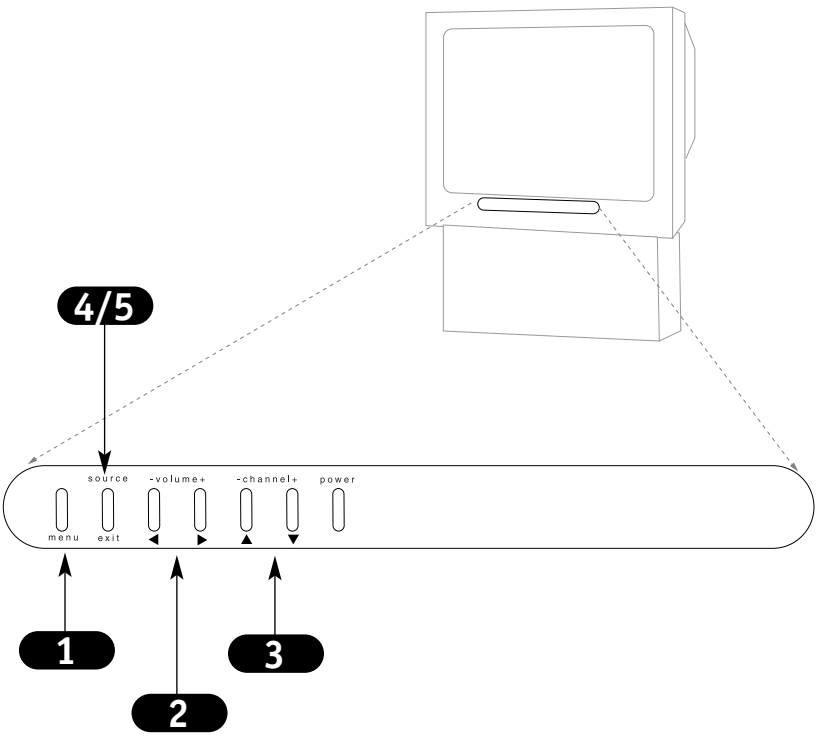
1 To access the menus, press the MENU button on the panel.

2 Use the VOLUME Left/Right buttons as the LEFT/RIGHT arrow buttons on your remote.

3 Use the CHANNEL Up/Down buttons as the UP/DOWN arrow buttons on your remote.

4 Push the EXIT button to return to normal TV viewing.

5 Press the SOURCE button to cycle through all sources.



Refer to the menu pages for using the on-screen menus.

The CHANNEL and VOLUME buttons work just as they do on your remote control.

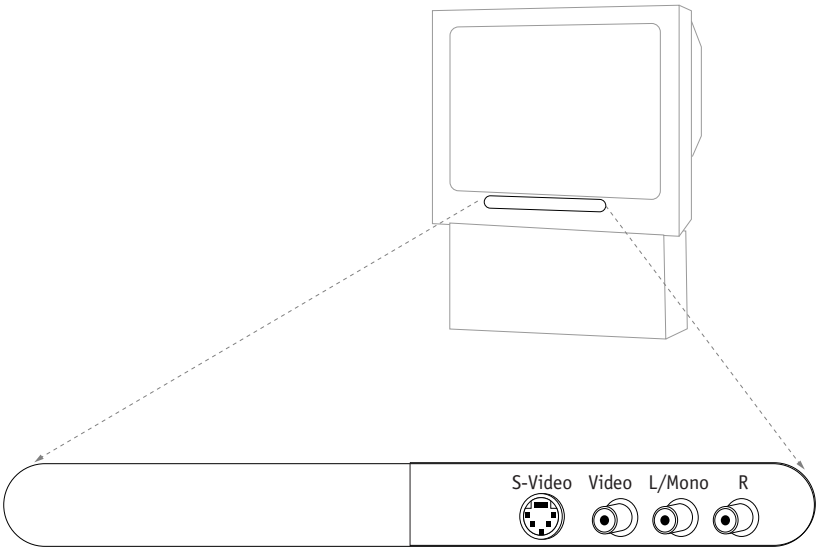
Auto Demo is activated by pressing the POWER button on the front panel and holding down on the button. To turn Auto Demo off, press the POWER button once.

There are four jacks on the front of your Entertainment Machine that make connecting Audio/Video equipment like video games and camcorders very simple.

The jacks are located behind a small door to the right of the buttons on the front panel.

The jacks are identical to those found on the back of your Entertainment Machine. Which means that any equipment that connects to those types of jacks in the rear jack pack, can also be connected in front.

To use the front jacks as the signal source, use the SOURCE button on your remote. To change the name of the Front Video source, see page 29.



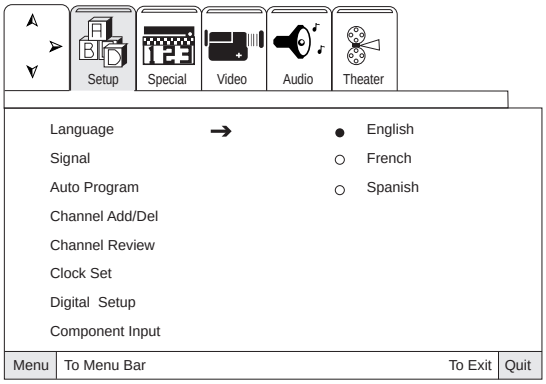
Using the Menu button on your remote, you can access all the menus below

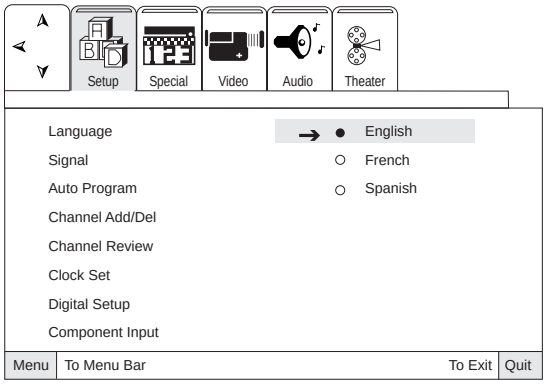
Menu Name	Page	Menu Description
		SETUP MENU Adjust the basic characteristics of your Entertainment Machine.
Language	22	Pick the language for the on-screen menus to appear in.
Signal Selection	15	Adjust the Signal Source for your Antenna/Cable 1 jack.
Auto Program	16	Automatically finds and stores active channels to flip through using Channel Up/Down.
Channel Add/Del	23	Manually pick and choose which active channels will appear when flipping through using Channel Up/Down
Channel Review	24	Review the labels and Parental Controls you have placed on your channels.
Clock Set	25	Set the Clock on your Entertainment Machine.
Digital Setup	26	Allows you to adjust the color convergence of your TV.
Component Input	27	Select the Color System for your DVD player or High Definition Set Top Box.
		SPECIAL MENU Go beyond basics and customize your Entertainment Machine's functions.
Channel Labels	28	Label your channels with their network names (ABC, CBS, HBO, etc.).
Source ID	29	Customize the names of your sources by either selecting a label or making your own.
Favorite Channels	30	Choose your Favorite Channels according to their category Movies, Sports, Sitcoms, News, Music, or Custom.
Parental Control	31	Allows parents to block any channel with the use of a password.
Security Timer	32	Program up to four separate events for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.
Captions/Text	33	Choose a captioning or text option for your TV.
Background	34	Changes the background for on-screen menus transparent or opaque.

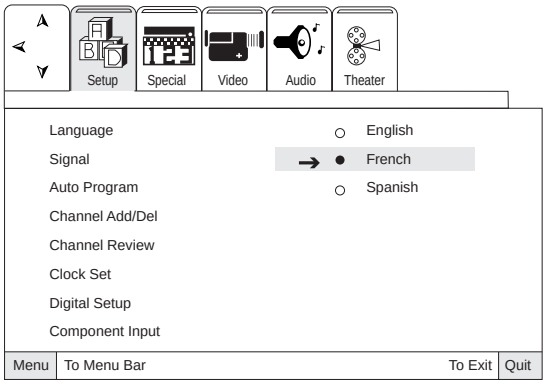
Using the Menu button on your remote, you can access all the menus below

Menu Name	Page	Menu Description
VIDEO MENU	35	Adjust your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Reset and Advanced Settings: Viewrite, Auto Flesh, Video Filter, Color Temperature, Aspect Ratio, and V. Position.
AUDIO MENU	36	Customize the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Reset and Advanced Settings: Stereo, Mono, Second Audio Program, Internal Speakers, Auto Noise Cancel, Loudness, and Soundrite.
THEATER MENU	37	Select the right audio and video automatic settings that optimize TV's performance for TV, Movies, Music, or Sporting Events
PIP OVERVIEW	38	Set the Picture-In-Picture settings for your Entertainment Machine.

Language Menu







Choose the language you want the on-screen menus to appear in.

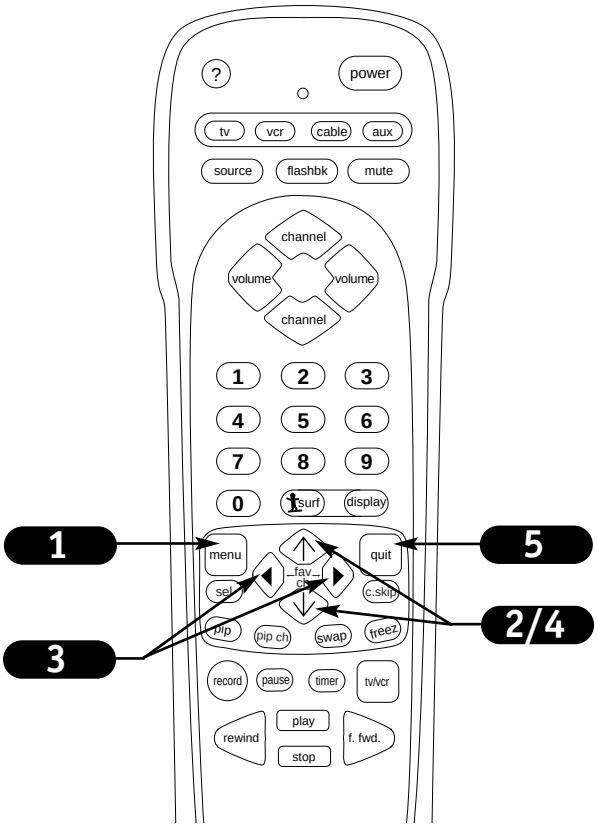
1 Press Menu to access the Setup menu.

2 Use the UP/DOWN arrow to select Language.

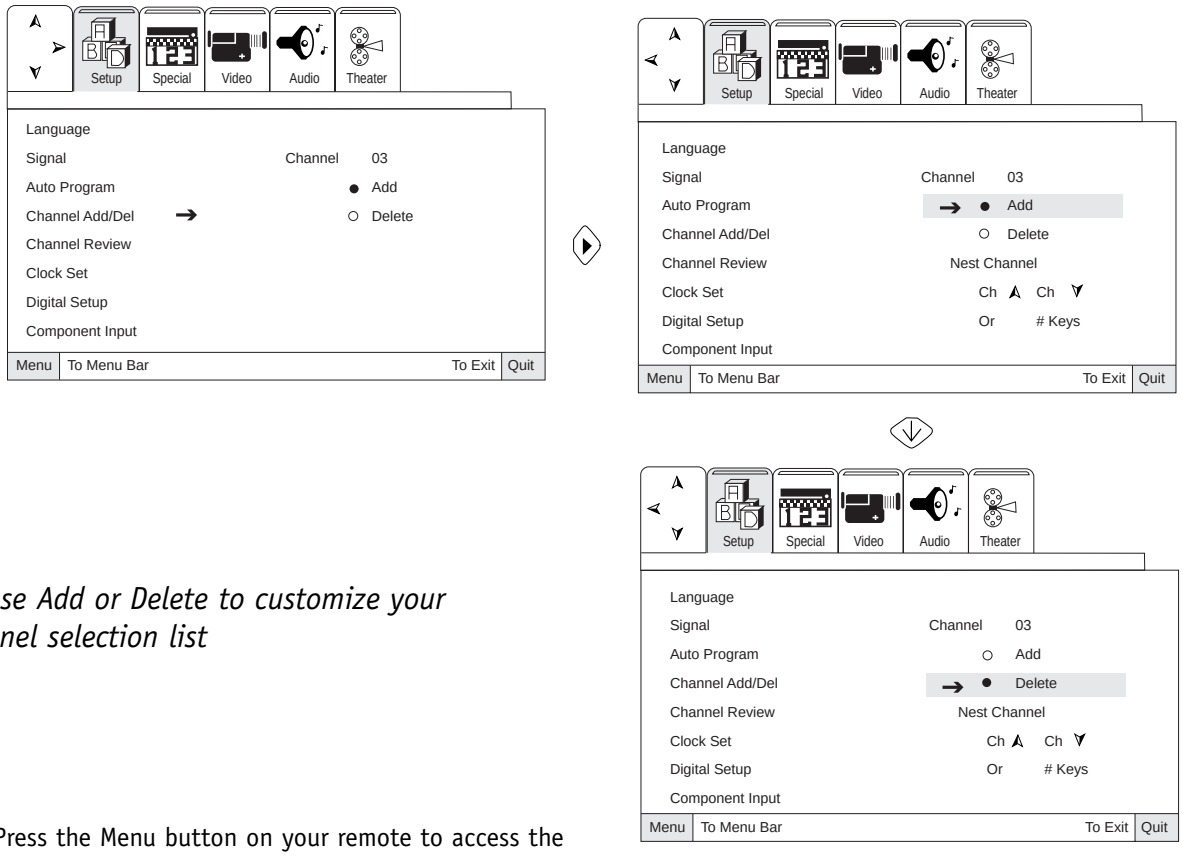
3 Press the RIGHT/LEFT arrow button to activate the Language menu option.

4 Use the UP/DOWN arrow button to select your language preference for the onscreen menus.

5 Press QUIT to exit and save your choice.



Channel Add/Delete



Choose Add or Delete to customize your channel selection list

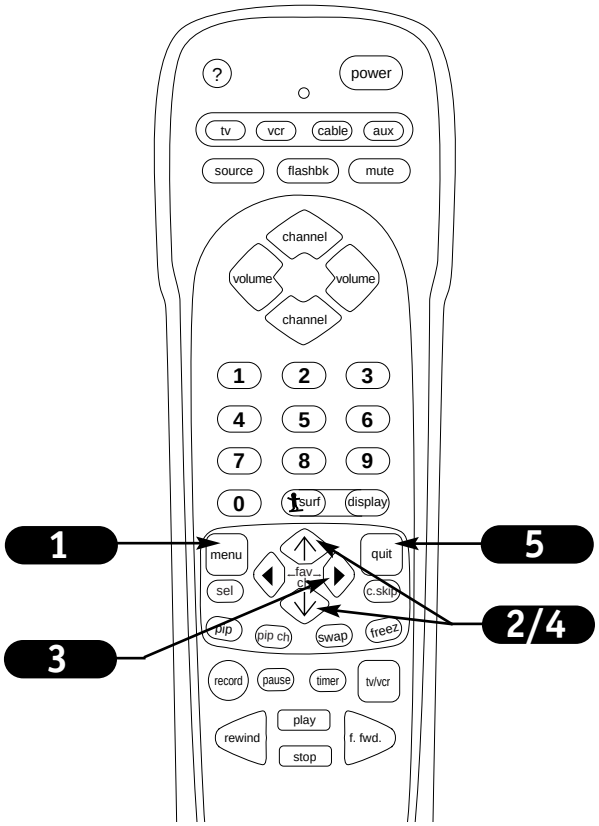
1 Press the Menu button on your remote to access the Setup menu.

2 Use the UP/DOWN arrow to select Channel Add/Del.

3 Press the RIGHT arrow button to activate the Channel Add/Del menu option.

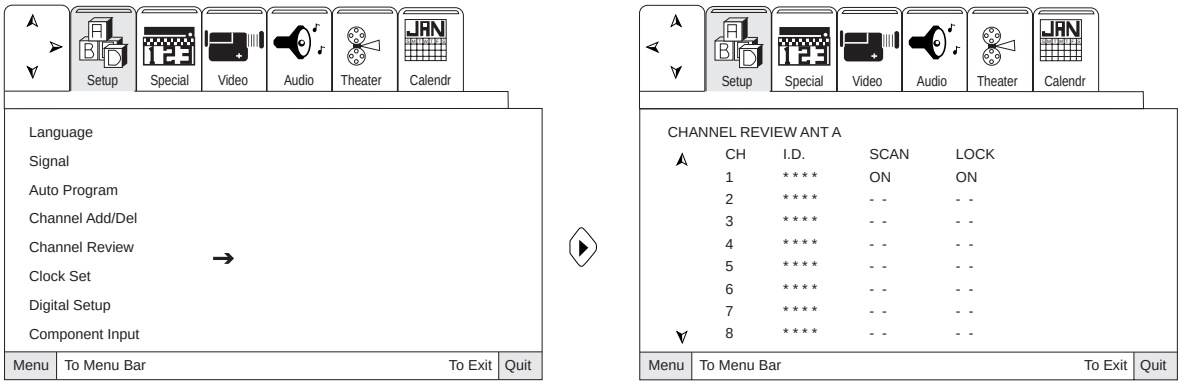
4 Use the UP/DOWN arrow button to Add or Delete the currently selected channel.

5 Press QUIT to exit and save your choice or use the Channel UP/DOWN buttons to select another channel to Add or Delete and repeat steps four and five.

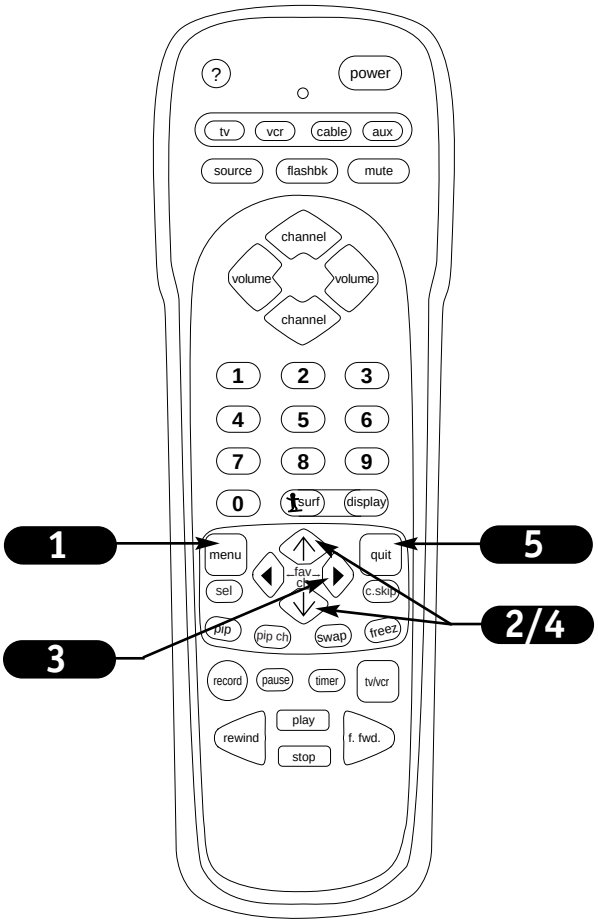


Channel Review

Review the channel settings on your Entertainment Machine

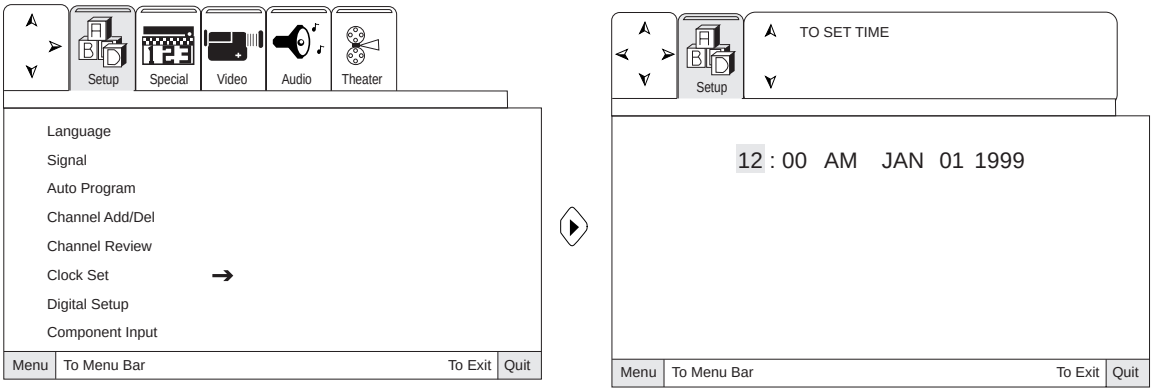


1. Press Menu to access the Setup menu.
2. Use the UP/DOWN arrow to select the Channel Review option.
3. Use the RIGHT arrow button to activate the Channel Review menu option.
4. Use the UP/DOWN arrow button to cycle through your channel list.
5. Press QUIT to exit.



Clock Set

Set the clock on your Entertainment Machine



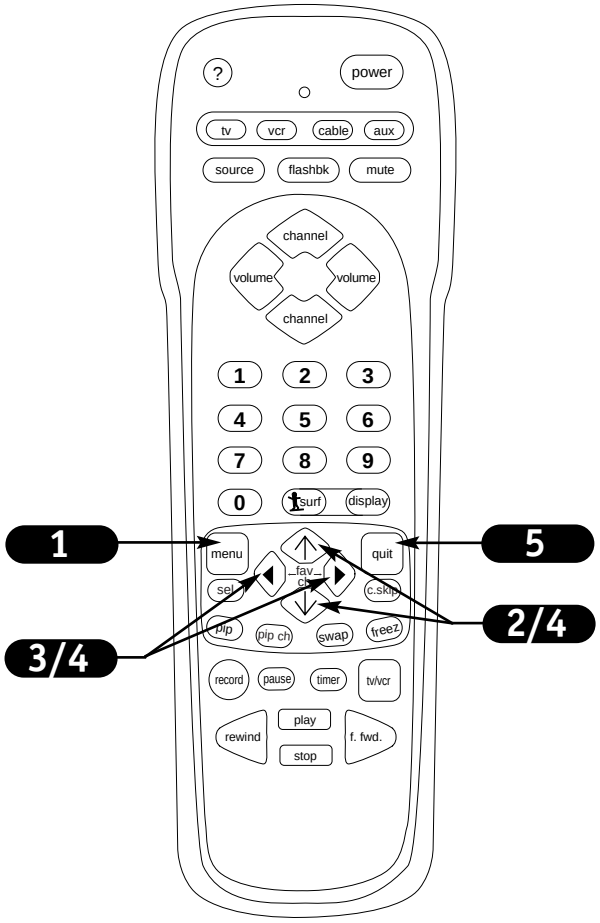
1 Press the Menu button on your remote to access the Setup menu.

2 Use the UP/DOWN arrow to select Clock Set.

3 Use the RIGHT arrow button to set the clock on your Entertainment Machine.

4 Use the RIGHT/LEFT arrow button to select time and date options. Use the UP/DOWN arrow buttons to adjust time and and date options.

5 Press QUIT to save and exit.



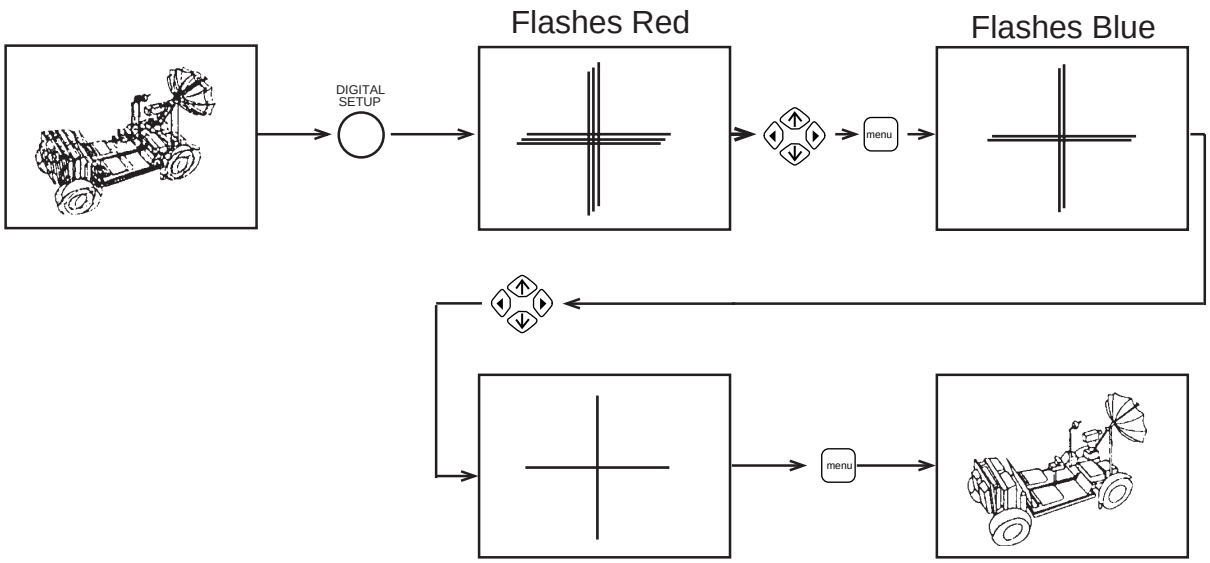
Your Zenith Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called “convergence”.

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To simplify convergence, Zenith incorporates a feature to allow you to display a test pattern of horizontal and vertical lines at one location on the screen. Simply use the remote control to adjust the red and blue colors to match the green. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To enter this adjustment mode, press the front panel DIGITAL SETUP button.



Press the ARROW buttons on the remote control to move the displayed color up, down, left, or right. (Press the QUIT button to toggle between red and blue.)

Press MENU on the remote control to change the color you want to adjust.

Press the front panel DIGITAL SETUP button or the remote control MENU button when adjustment is done. This will save your adjustment into memory.

NOTES: Only a momentary press of the DIGITAL SETUP button is necessary to enter DIGITAL SETUP convergence adjustment mode.

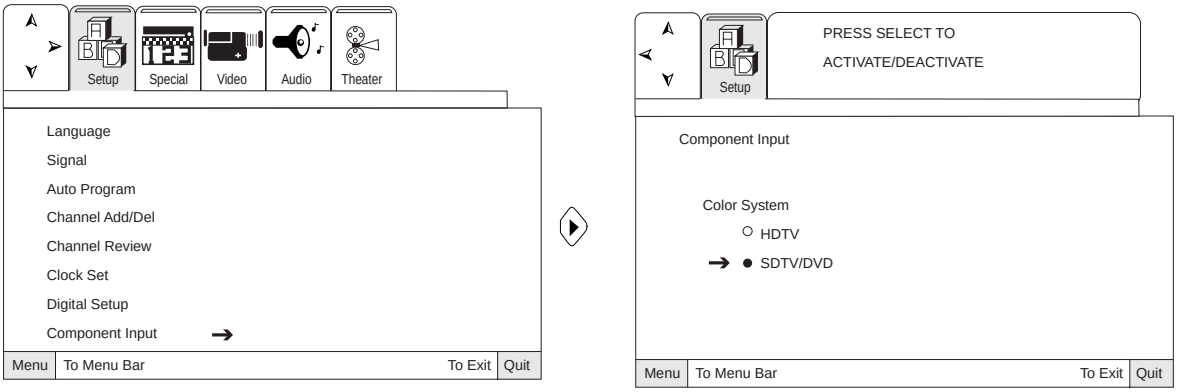
Do not press the DIGITAL SETUP button for more than three seconds.

To save your adjustment data into memory, press the front panel DIGITAL SETUP button or the remote control MENU Button. If you do NOT wish to save your adjustment data into memory, turn the TV OFF. When the TV is turned ON again, your old convergence data will be restored.

To exit this function, press DIGITAL SETUP on the front panel of your Entertainment Machine.

Component Input

Select Component Input as the picture and sound source on your Entertainment Machine



1 Press the Menu button on your remote to access the Setup menu.

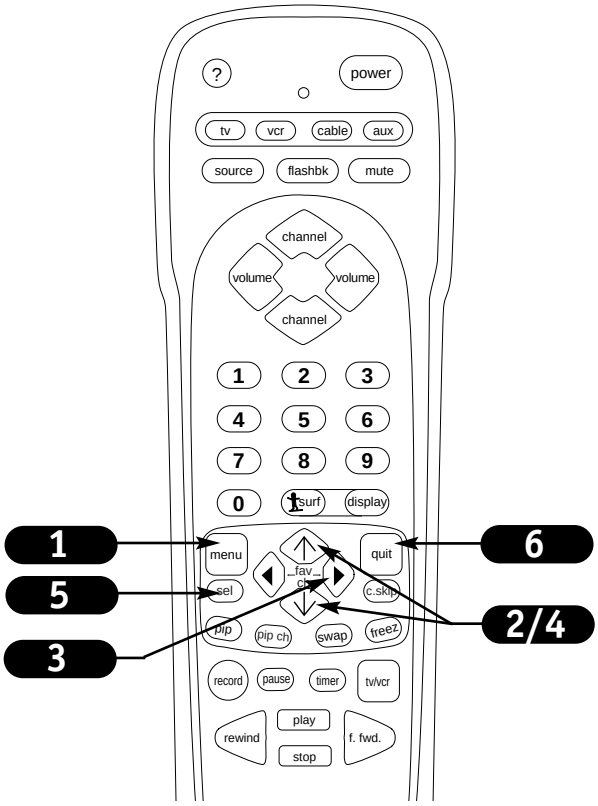
2 Use the UP/DOWN arrow to select Component Input.

3 Use the RIGHT arrow button to access the Color System Menu.

4 Use the UP/DOWN arrow buttons to select HDTV or SDTV/DVD (depending on whether you have an HD-ready Set Top Box or a DVD player connected to your component video jacks).

5 Use SELECT to pick your choice.

6 Press QUIT to save and exit.

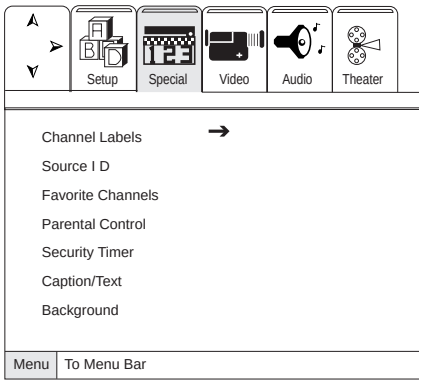


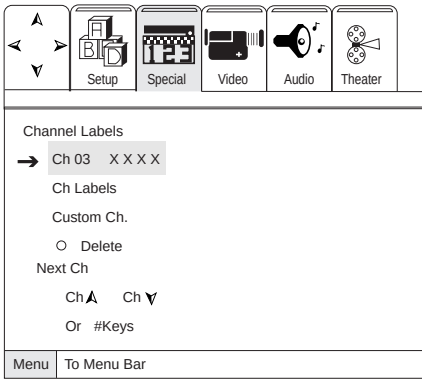
NOTES: To access this menu, you must be tuned to the VIDEO: 1 or 2 input and have a component hooked up to the Y-P_bP_r input jacks.

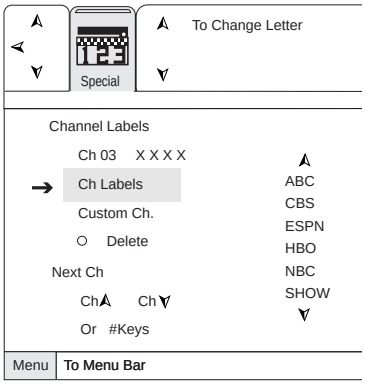
Setting this feature will affect only the input you are currently viewing. If you are using both sets of component input jacks, be sure to set the COMPONENT INPUT for BOTH inputs.

206-3597-A

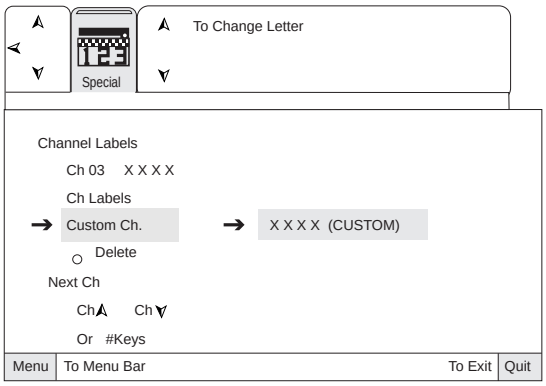
Channel Labels: Preset/Custom







Use the preset labels to name the channels or create your own channel labels on your Entertainment Machine



1 Press MENU button on your remote and then press the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Channel Labels.

3 Press the RIGHT arrow button to activate the Channel Labels option.

4 At this point you have three options: Select a pre-set channel label by selecting Channel Labels. **Or** Customize your channel label by selecting Custom Channel, **or** delete a channel label entirely by selecting Delete. Use the UP/DOWN arrows to select an option.

5 If you select Channel Labels, press the RIGHT arrow button to access the preset channel label list and scroll through this list using the UP/DOWN arrow buttons.

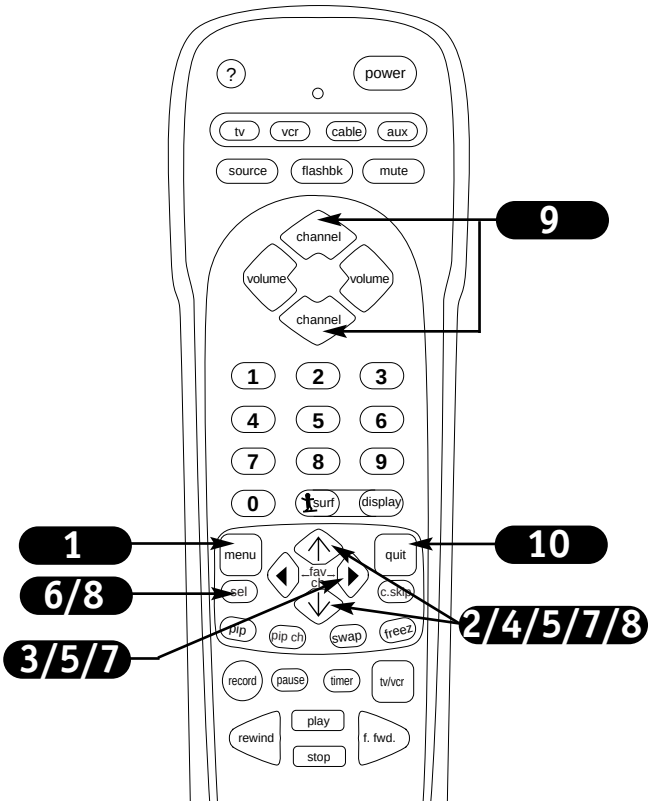
6 When you find the right label for the channel, press the SELECT button.

7 If you select Custom Channel, press the RIGHT arrow button once and then use the UP/DOWN arrow buttons to select individual letters and LEFT/RIGHT arrow buttons to select placement of letters.

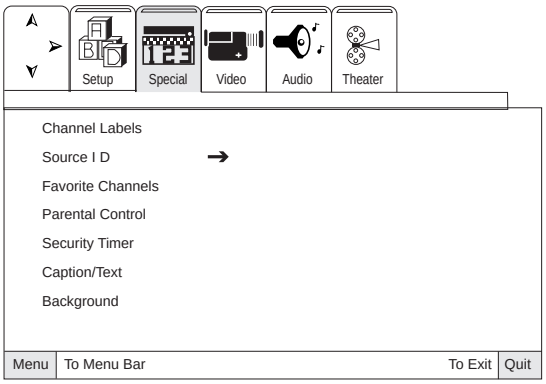
8 If you wish to delete a channel, select Delete using the UP/DOWN arrow buttons from step four and then press the SELECT button on your remote. You will asked "Are You Sure?" press SELECT again if you are sure.

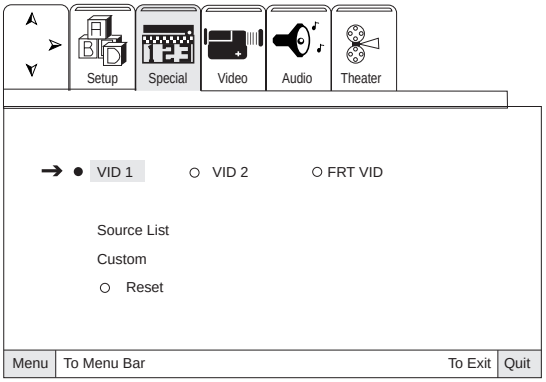
9 Use CHANNEL UP/DOWN buttons or the NUMBER KEYPAD and choose another channel to label. Repeat steps 4-9 for all channels you wish to label.

10 Press QUIT to save and exit.

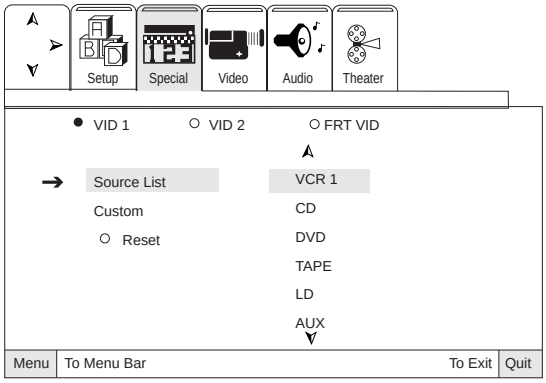


Source ID





Choose preset names for the available picture and sound sources on your Entertainment Machine



1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Use the UP/DOWN arrow to select Source ID.

3 Press the RIGHT arrow button to activate the Source ID option.

4 Use the RIGHT arrow button to select VID1, VID2 or Frt. Vid (for front video jacks).

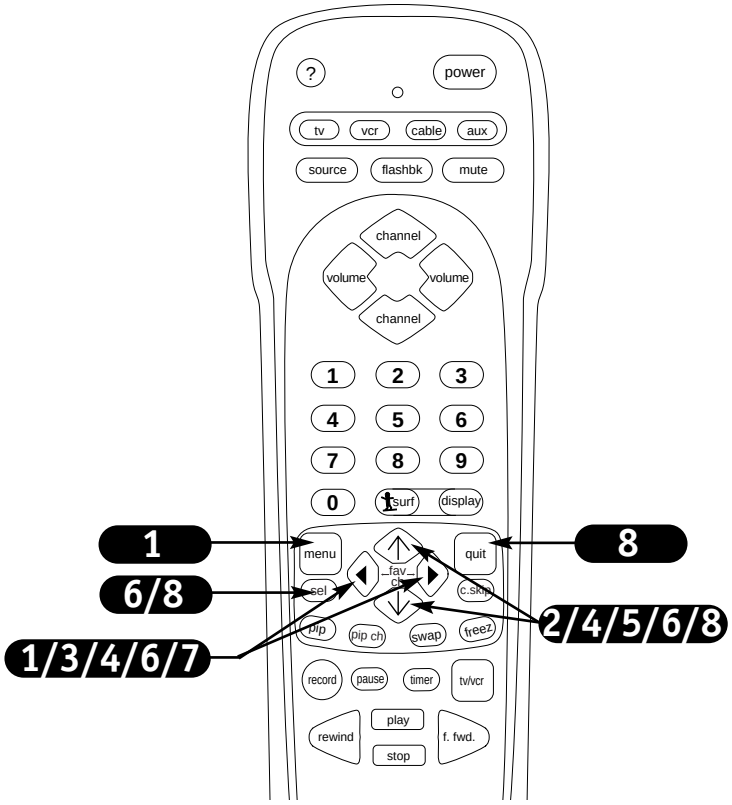
5 Use the UP/DOWN arrow buttons to select Source List to choose a pre-set Source ID, Custom to create your own label, or Reset to clear all labels.

6 If you select Source List, press the RIGHT arrow button to access the list and then the UP/DOWN arrow buttons to select from the list. Press SELECT to save your choice.

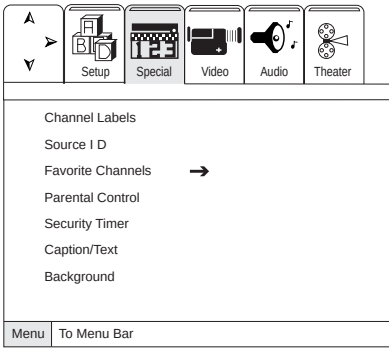
7 If you wish to customize your source ID, select Custom (from step 5), then press the RIGHT arrow button. Cycle through the character choices using the UP/DOWN buttons and cycle through the character slots using the RIGHT arrow button. Press QUIT to save your choice and exit.

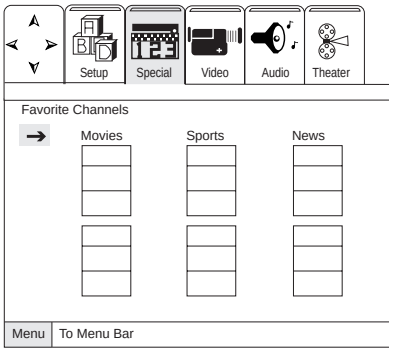
8 If you wish to delete a Source ID, select Delete (from step 5), then press the SELECT button. You will be asked "Are You Sure?" press QUIT to save and exit.

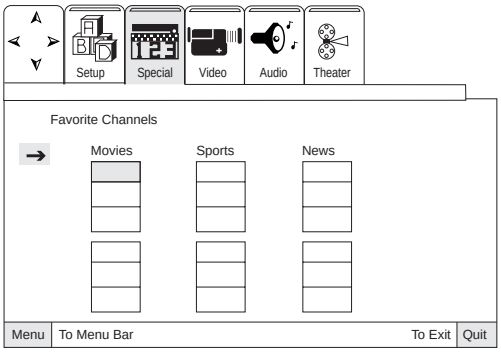
When you label VID1, VID2 and Frnt. Vid the TV will automatically change to the source of the last source labeled. To return to your original viewing source, press the source button on the remote repeatedly until you see the picture you were originally watching.



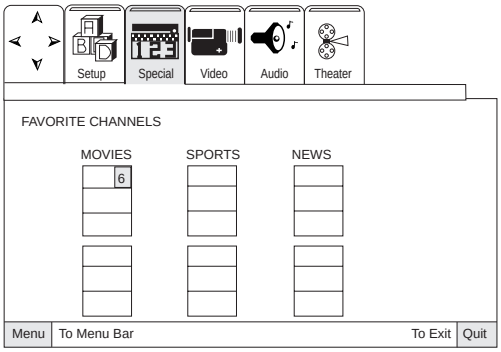
Favorite Channels







Select catagories for your favorite channels



1 Press MENU and then RIGHT/LEFT arrow button to access the Special Menu.

2 Use the UP/DOWN arrow to select Favorite Channels. Press the RIGHT arrow button to activate Favorite Channels option.

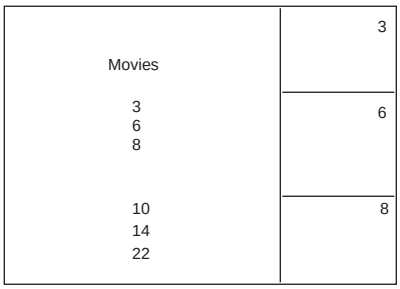
3 Use the RIGHT arrow button to select your Favorite Channels category such as Movies, Sports, News, Sitcom, Music or Custom.

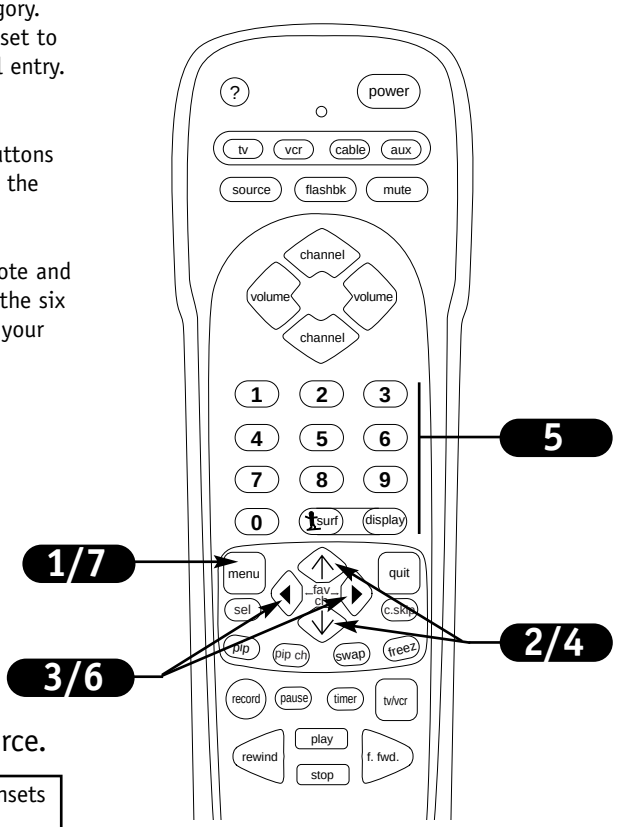
4 Once you have selected a category, press the DOWN arrow button to select a slot for your Favorite Channel of that category.

5 Use the NUMBER keypad to enter the channel you want for that category. Wait three seconds and your selected channel will go into the first inset to the right. Use the UP/DOWN arrow buttons to select the next channel entry. Repeat these steps for all categories.

6 To access your favorite channels, simply use the LEFT/RIGHT arrow buttons while watching TV. Use the UP/DOWN arrow buttons to scroll through the choices you have set.

7 While in Favorite Channels Mode, press the menu button on your remote and after a short time you will see three PIP insets representing three of the six Favorite channels you have selected for that category to the right of your viewing area.

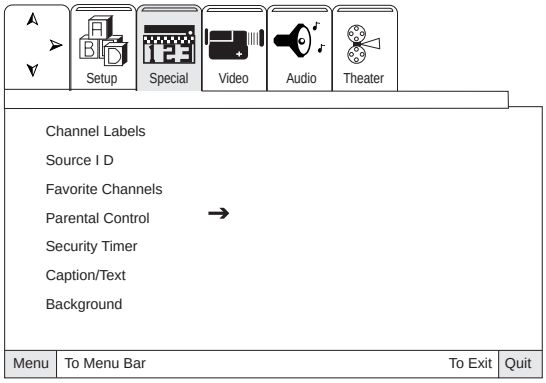


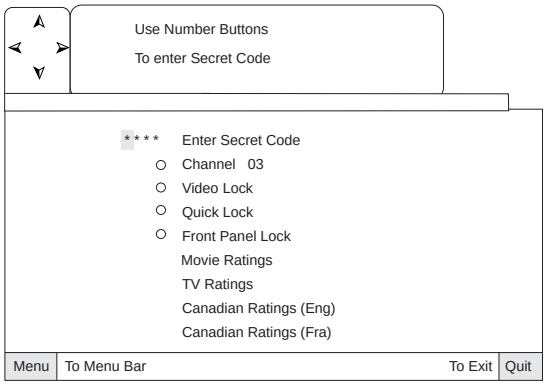


Favorite Channels are only available on ANT 1 source.

NOTE: If Parental Control Ratings are locked, it will disable multiple PIP insets (including the Favorite Channels PIP insets).

Parental Control





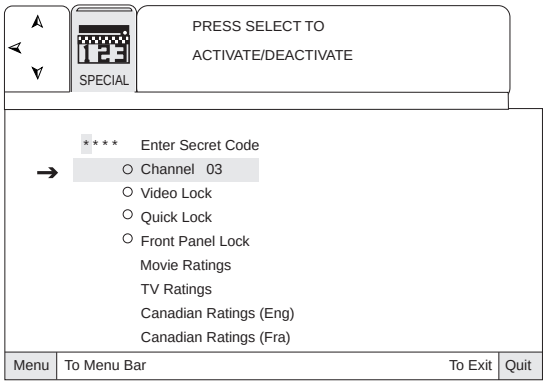
1 Press MENU and then the RIGHT/LEFT arrow button to access the Special Menu.

2 Press an UP/DOWN arrow to select Parental Control and press the RIGHT arrow button to activate Parental Control.

3 When prompted, enter the default code 7777 from the number keypad. If you wish to change the code, select "Change Secret Code" and enter the new code through the number keypad. If you forget your code, just re-enter "7777" to reset to factory preset code.

4 Use the UP/DOWN arrow buttons to select the Signal block, press SELECT to confirm your choice:

- **Channel:** Selects the channel you wish to restrict. (This option only works if TV is tuned to Antenna 1 or Antenna 2)
- **Video Lock:** Selects the Video Inputs to be blocked. (This option only works if TV is tuned to VID 1, VID 2, or FRT VID)
- **Quick Lock:** Blocks CH3 and CH4 on ANT 1 and 2, as well as all 3 video input jacks.
- **Front Panel Lock:** Blocks front panel controls from being used. Only Power button will work when this feature is on.



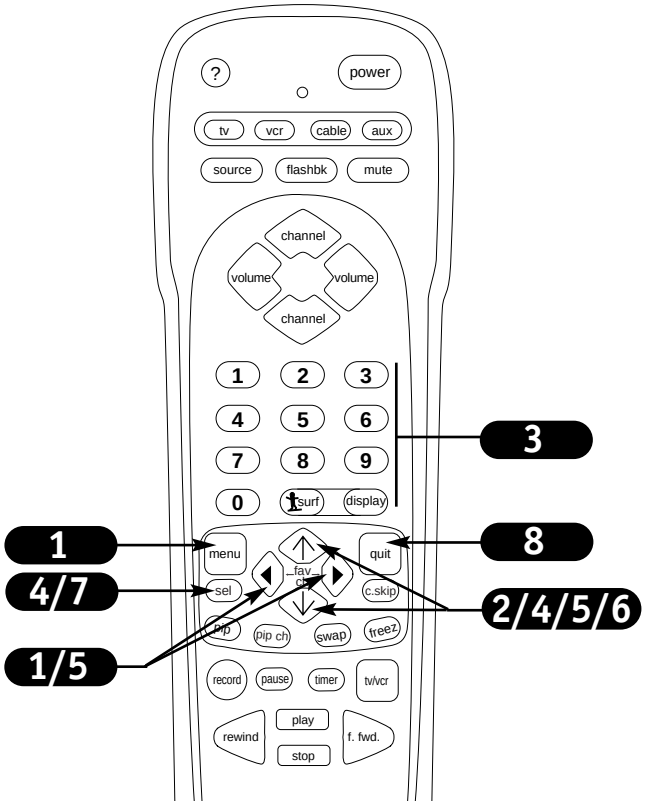
5 Now you will set the Ratings for the channel you wish to block. Press the UP/DOWN arrows to select the following rating formats and press the RIGHT arrow button to activate each rating menu:

- **Movie Ratings:** Sets ratings based on MPAA ratings system.
- **TV Ratings**: Sets ratings based on the age of viewer and content of programming.
- **Canadian Ratings (Eng):** Sets age ratings for Canadian broadcasting (Eng).
- **Canadian Ratings (Fra):** Sets age ratings for Canadian broadcasting (Fra).

6 For each rating menu, press the UP/DOWN arrow buttons to select the level of rating you wish to block.

7 Press the SELECT button to lock or unlock the rating selection.

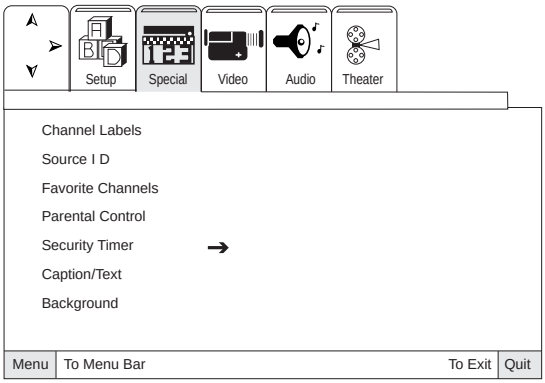
8 Press QUIT to save and exit.

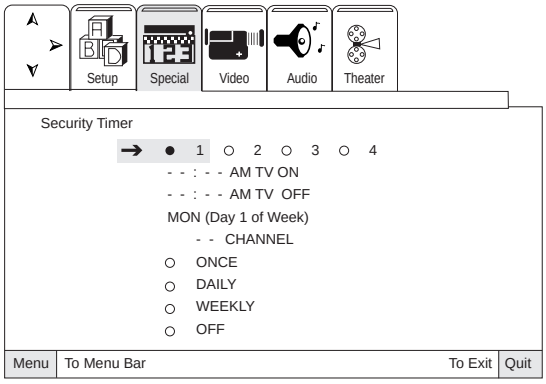


In order to use Video lock, you must press the source button on the remote until you select VID 1, VID 2 or Frt. Vid. in order to lock these source. The same applies to unlocking the Video Lock.

Security Timer

Use the Security Timer to turn your TV on and off automatically





1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Use the UP/DOWN arrow to select Security Timer. Press the RIGHT arrow button to activate the Security Timer option.

3 You may select up to four ON/OFF time settings for your TV. Use the RIGHT arrow button to select 1-4, then press the DOWN arrow button to select the TV On time.

4 Press RIGHT arrow to Set On time. Set time using the LEFT/RIGHT and UP/DOWN arrow buttons (the same way you set the TV's clock).

5 Press the LEFT arrow button repeatedly until the cursor appears to the left of the current line item.

6 Use the DOWN arrow button to select Day. Press LEFT/RIGHT button to select which day of the week (if necessary).

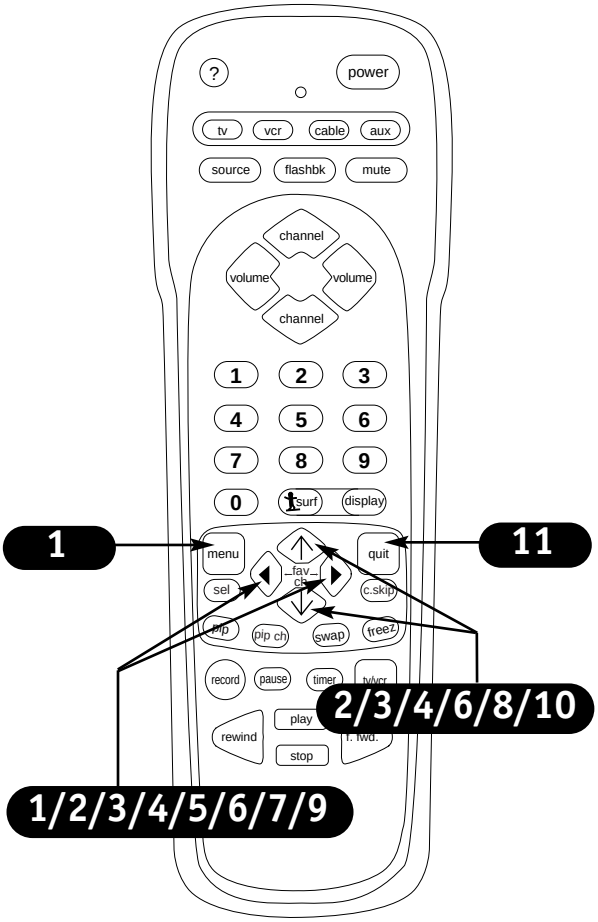
7 Press the LEFT arrow button repeatedly until the cursor appears to the left of the current line item.

8 Use the DOWN arrow button to select Channel. Set the channel for the TV to tune to by entering the channel through the number keypad.

9 Press the LEFT arrow button repeatedly until the cursor appears to the left of the current line item.

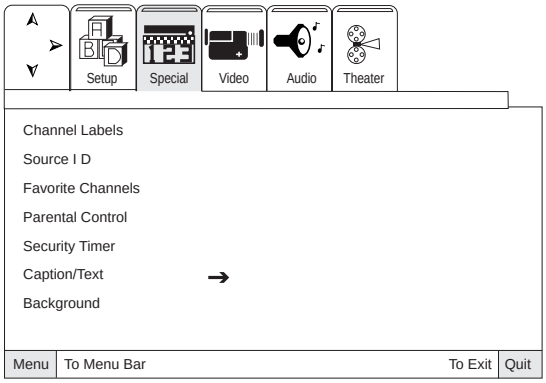
10 Use the UP/DOWN arrow buttons to select Once, Daily, Weekly or Off. Use the SELECT arrow button to set your selection.

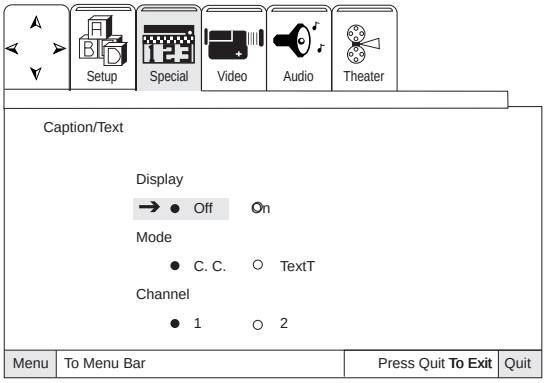
11 Repeat steps 3-8 for three more "events" or press QUIT to save and exit.



Caption/Text

Set the Caption/Text options for your Entertainment Machine





1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

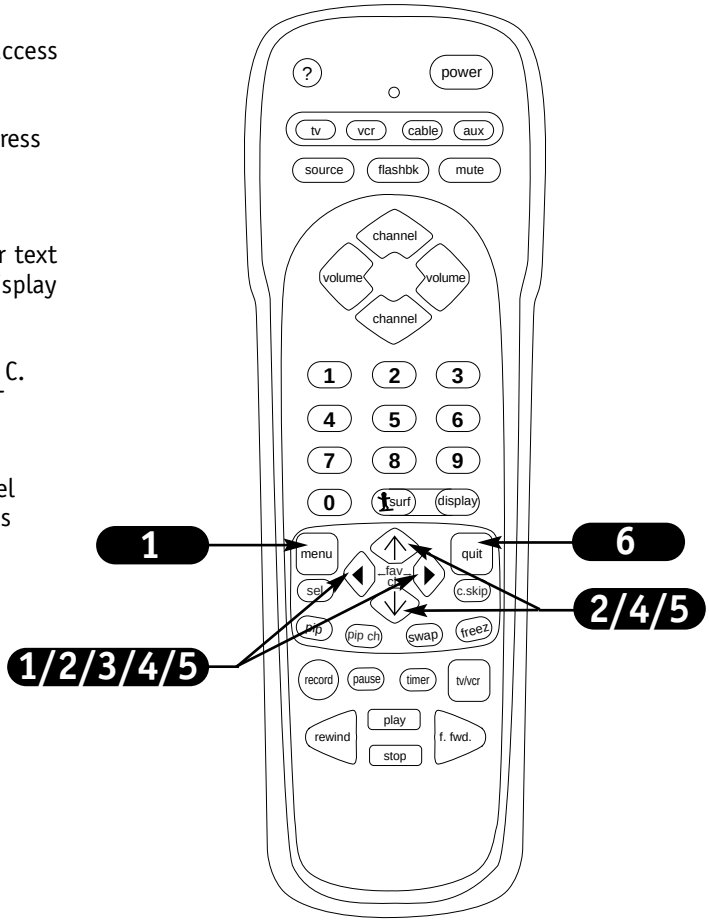
2 Press an UP/DOWN arrow to select Caption/Text. Press the RIGHT arrow button to activate Caption/Text option.

3 Select Display Off or On to turn on your caption or text selection. Press the RIGHT arrow button to turn Display On or Off.

4 Press a DOWN arrow button to select the mode, C. C. for Closed Captions or Text for Text. Use the RIGHT arrow button to select.

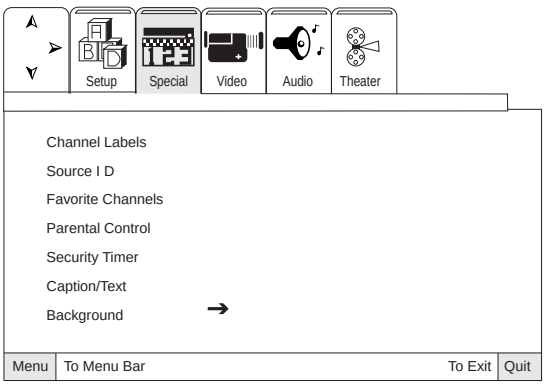
5 Press a DOWN arrow button to select which channel Closed Captions or Text shall be set to. Usually this should be set to 1. Use the RIGHT arrow to select.

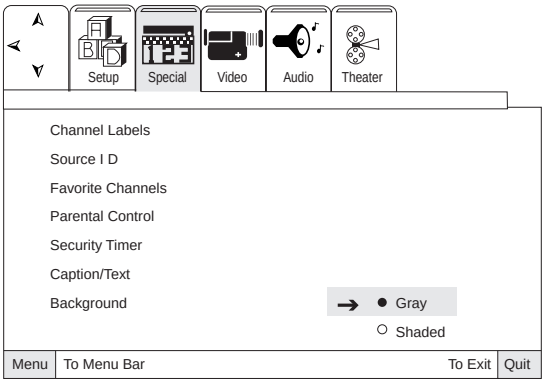
6 Press QUIT to save and exit.



Background

Select Gray or Shaded for the menu backgrounds



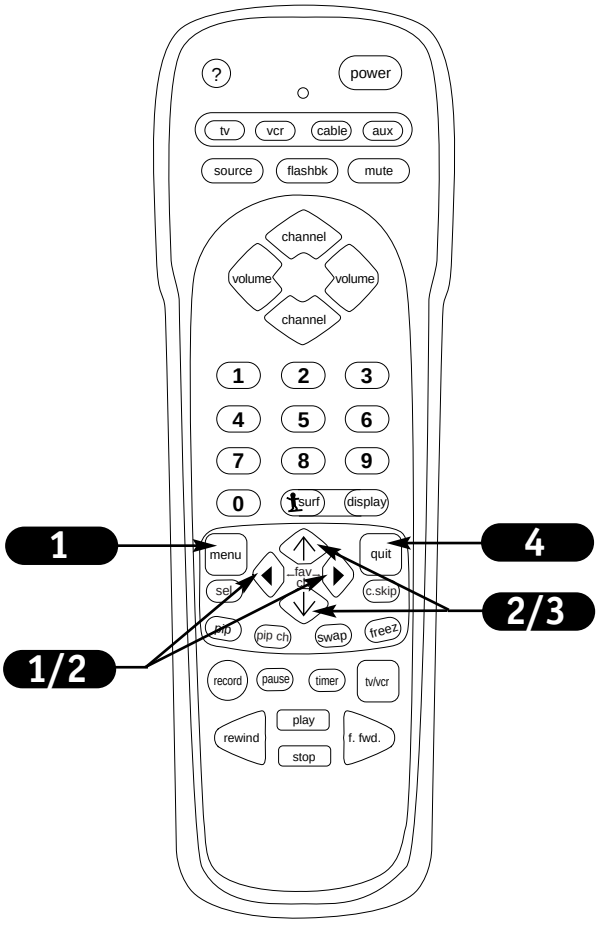


1 Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

2 Use the UP/DOWN arrow to select Background. Press the RIGHT arrow button to activate Background option.

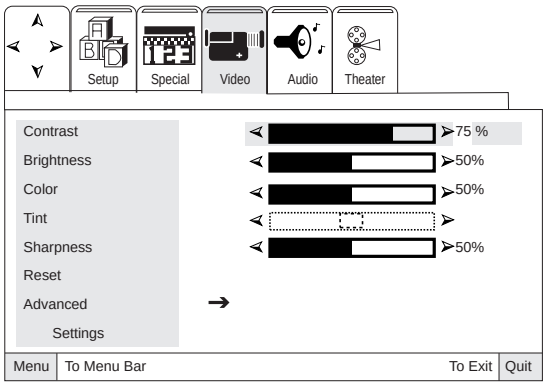
3 Use the UP/DOWN arrow buttons to select Gray or Shaded.

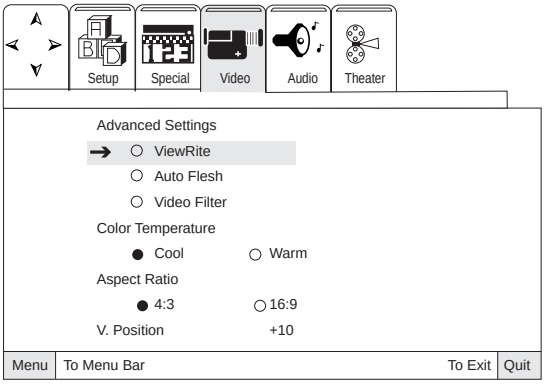
4 Press QUIT to save and exit.



Video Menu

Customize the picture appearance





1 Press MENU and the RIGHT/LEFT arrow button to access the Video Menu.

2 Use the UP/DOWN arrow to select one of the following options. Press the RIGHT/LEFT arrow button to activate that option (For these items only, the adjustment bar will drop to the bottom of the screen, continue with normal operation.):

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.

3 Use the UP/DOWN arrow to select Reset (Reset restores the levels to their original settings). Press SELECT to confirm your choice.

4 Use the UP/DOWN arrow to select Advanced Settings. Press the RIGHT arrow button to activate the Advanced Settings menu.

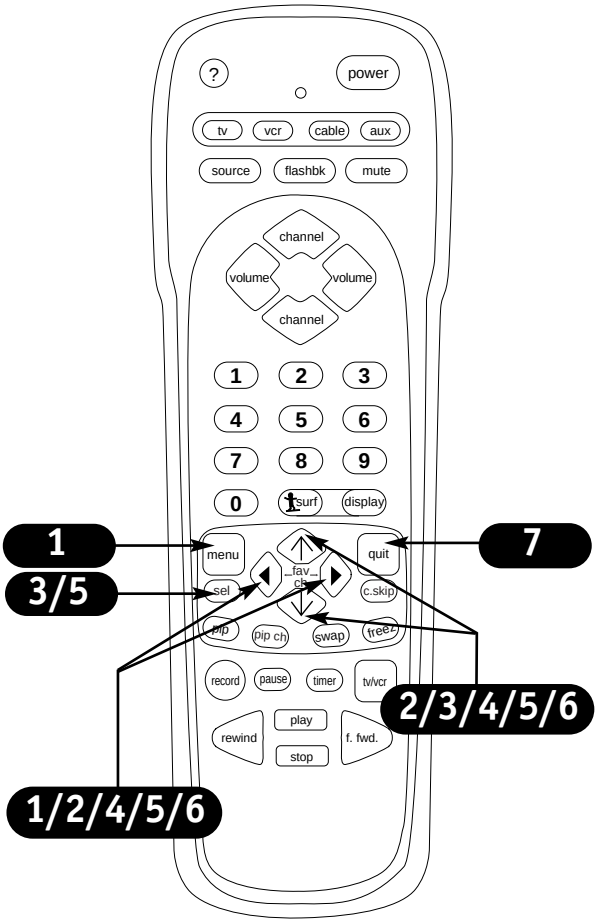
5 Use the UP/DOWN arrow to select from the following options. Press SELECT to confirm your choice:

- **Viewrite:** Automatically monitors and adjusts contrast depending on room lighting to produce a more natural picture. Also adjusts Auto Flesh Tone and Video Filter depending on signal.
- **Auto Flesh:** Automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes.
- **Video Filter:** Automatically reduces conspicuous noise in the picture without degrading picture quality.

6 Use the UP/DOWN arrow to select the following options. Press the RIGHT arrow button to select the setting for these options:

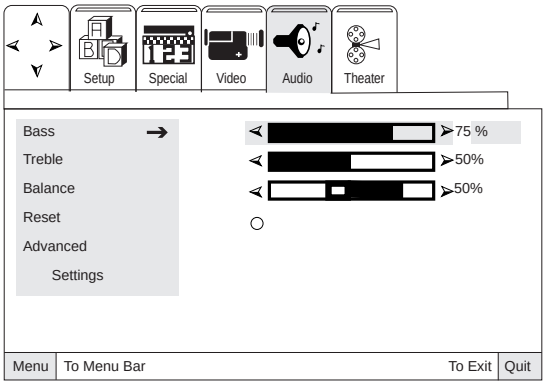
- **Color Temperature:** Set this to Warm for hotter colors such as red, or set to cool for less intense colors with more blue.
- **Aspect Ratio:** Select between 4:3 ratio, a traditional TV format or 16:9 the widescreen "letterbox" format. (Only available if component video source is active).
- **Vertical Position:** Adjusts the vertical position of a widescreen picture format, 16:9. (Only available if component video source is active).

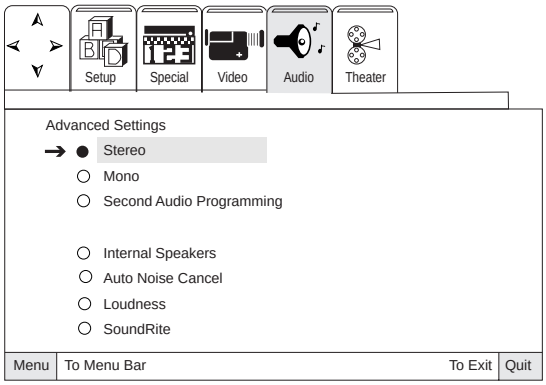
7 Press QUIT to save and exit.



Audio Menu

Customize the sound to your preference





1 Press MENU and the RIGHT/LEFT arrow button to access the Audio Menu.

2 Use the UP/DOWN arrow to select one of the following options. Press the RIGHT/LEFT arrow buttons to adjust that option.

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.

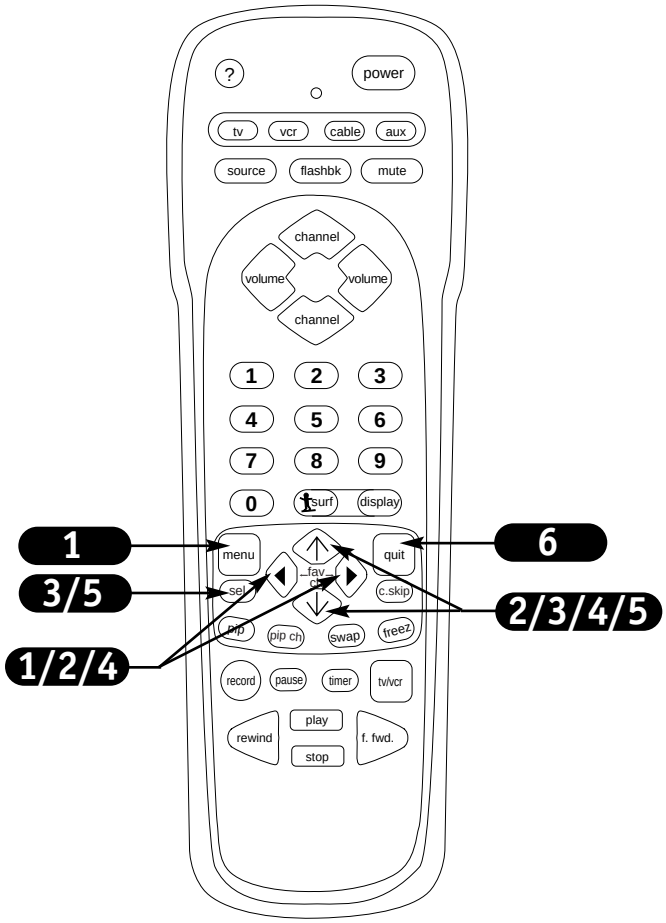
3 Use the UP/DOWN arrow to select Reset (Reset restores the levels to their original settings). Press SELECT to confirm your choice.

4 Use the UP/DOWN arrow to select Advanced Settings. Press the RIGHT arrow button to activate the Advanced Settings menu.

5 Use the UP/DOWN arrow to select from the following options. Press SELECT to confirm your choice:

- **Stereo:** Activate stereo sound.
- **Mono:** Activate mono sound.
- **Second Audio Programming:** Activates separate audio channel available with some programming.
- **Internal Speakers:** This function is useful when first setting up external speakers, or if you prefer to use only speakers from a separate stereo system.
- **Auto Noise Cancel:** Use to eliminate the noise between stations.
- **Loudness:** This function will improve the quality of both low and high frequency sounds when listening at low volume levels.
- **SoundRite:** This function will automatically adjust volume so each channel has the same average volume level

6 Press QUIT to save and exit.

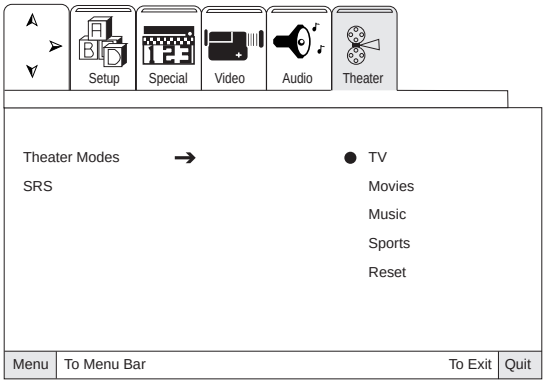


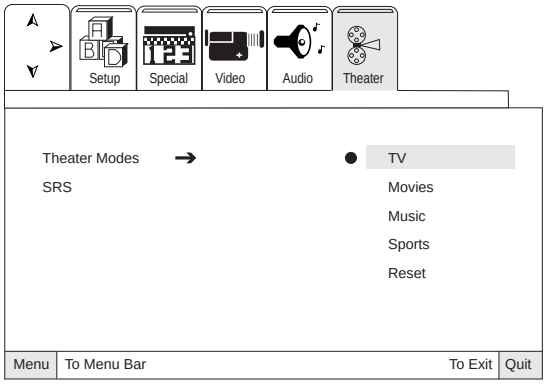
Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.

Programming that doesn't broadcast SAP may be silent when you set your Entertainment Machine on this setting.

Theater Modes

Set the Theater Modes to your preference





1 Press MENU and then the RIGHT/LEFT arrow button to access the Theater menu.

2 Press DOWN arrow button to access the Theater Modes or SRS®.

3 To change Theater Modes, press RIGHT/LEFT arrow buttons to select the Theater Modes.

4 Use the UP/DOWN arrow buttons to choose which mode you prefer. Each is a preset Audio-Video configuration which enhances your viewing pleasure.

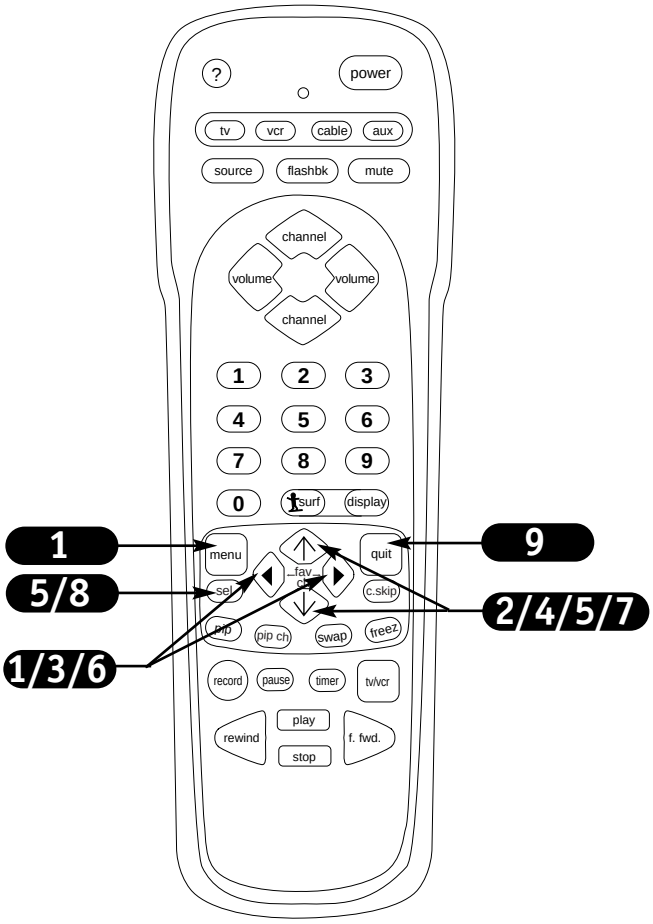
5 Use the UP/DOWN arrow to select Reset (Reset restores the levels to their original settings). Press SELECT to confirm your choice.

6 To activate SRS®, use the LEFT/RIGHT arrow buttons to activate On/Off switch.

7 Use the UP/DOWN arrow buttons to select On or Off.

8 Press SELECT to confirm your choice.

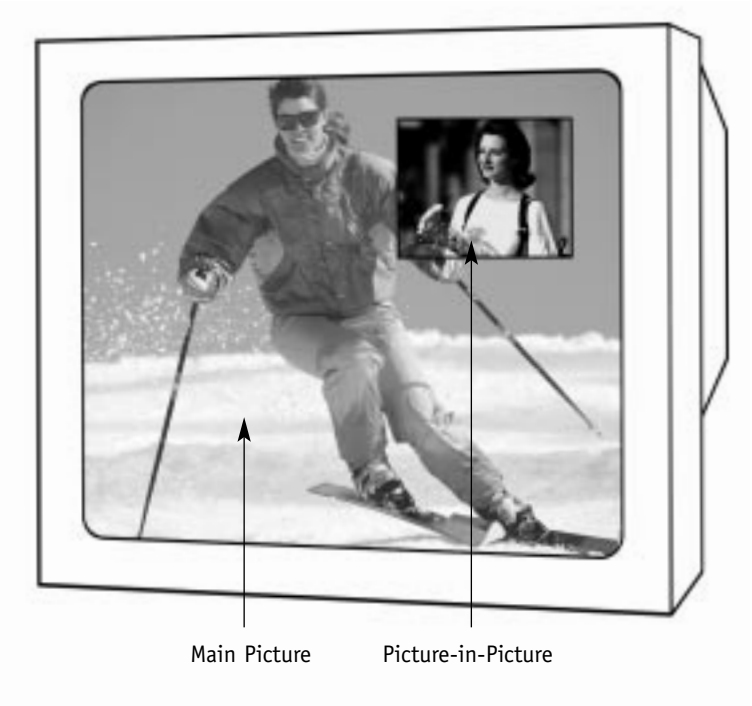
9 Press QUIT to save and exit.



SRS retrieves the spatial information from any stereo recording and restores the original three-dimensional sound field. As a result, the reproduced sound is much closer to that of a live performance.

SRS and the (●) symbol are trademarks of SRS labs, Inc.
SRS technology is incorporated under license from SRS Labs, Inc.

Picture-in-Picture is like having two TVs in one



YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. Don't want to miss any of the big game, but hate commercials? Just put the game in the inset, and surf with the main picture.

2-TUNER PIP FEATURE

Normally, you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your Entertainment Machine eliminates that need by giving you two tuners in one TV. PIP is always available, no matter what equipment you have.

WORKING WITH PIP

This is where your MBR remote is put to the most use. All of the functions PIP has are accessible through the menus that pop up on-screen when you use your remote. There's more about that on the following page.

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. When you set the main screen source to Antenna/Cable 1 or 2, the PIP source will automatically set to that as well. You can adjust and/or request a different source through the Source selection on your remote.

POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You use a cable box to receive premium channels, and have it "looped out" on the back of the TV. Set the PIP source to the cable box source, and the Inset will display the premium channels, which can then be swapped with the main picture.

2. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, or 2 and you can watch the VCR and TV, swapping between the two.

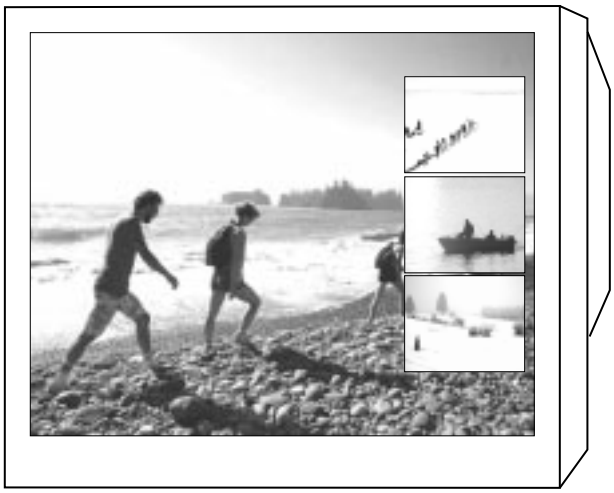
Picture-In-Picture Overview

SINGLE MODE PIP

1. Press the PIP button on your remote to activate the PIP display. This display appears in one corner of the screen. Press PIP again to remove the display from the screen.

2. Use the PIP Ch button on your remote to switch between main picture and PIP inset display channel tuning control.
   • Main Picture channel tuning: Channels are tuned for the main screen.
   • PIP Inset Display channel tuning: Channels are tuned for the PIP inset.
   Note: Available for Antenna 1-2 sources.

3. Press the SOURCE button on your remote when PIP display is active to change PIP source from VID1, VID2, FRT. VID, and ANT 1 antenna source.



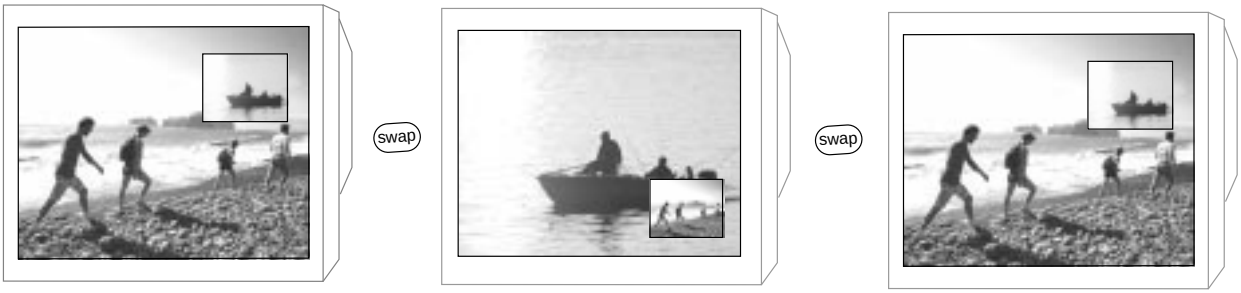
SURF MODE PIP

1. Press the PIP button on your remote. Press the “Surf” button to see three PIP insets. Surf will scan all active channel numbers and display them as PIP displays.

2. Press PIP again to remove PIP displays from screen.

NOTES: If Parental Control Ratings are locked, it will disable multiple PIP insets (SURF mode PIP).

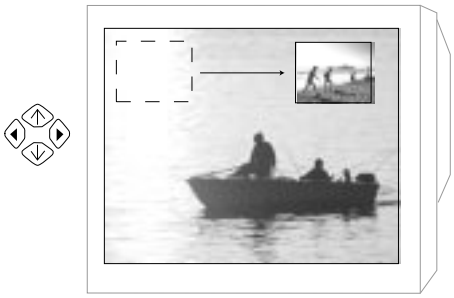
PIP Functions



PIP SWAP

1 Press the SWAP button on your remote to switch between the PIP display and the main picture.

PIP MOVE



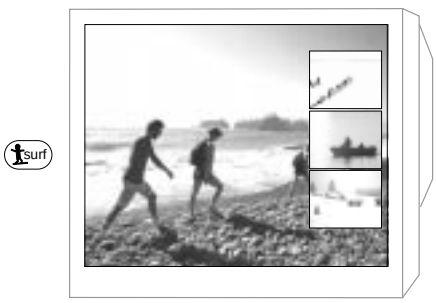
1 If you wish to move the PIP display to another part of your screen other than the corners, simply activate the PIP display, wait about eight seconds and then move the PIP display with the UP/DOWN and LEFT/RIGHT arrow buttons on your remote.

PIP FREEZE

1 With PIP displayed, press the FREEZ button on your remote to freeze the PIP display.

2 Pressing FREEZ with PIP off will automatically bring up a PIP display with the Main Picture screen frozen at that point.

PIP STROBE



1 To activate the "Strobe" feature of your PIP display, Press FREEZ to bring the PIP window on the screen.

2 Press the "Surf" button on your remote control. You will see three PIP displays of a single scene separated by 1/10 of a second in time. This feature is useful for viewing a moving picture that has many details. For example, a close play in a sport event or a golf swing.

Programming the Remote

Program your remote to operate other products such as a VCR or Cable Box

1 The device you want to program should be ON.

2 On the following pages go the brand code chart in this manual, find the type of device you're programming and then find the brand name. Write down the two-digit code(s); for programming the remote to operate other devices.

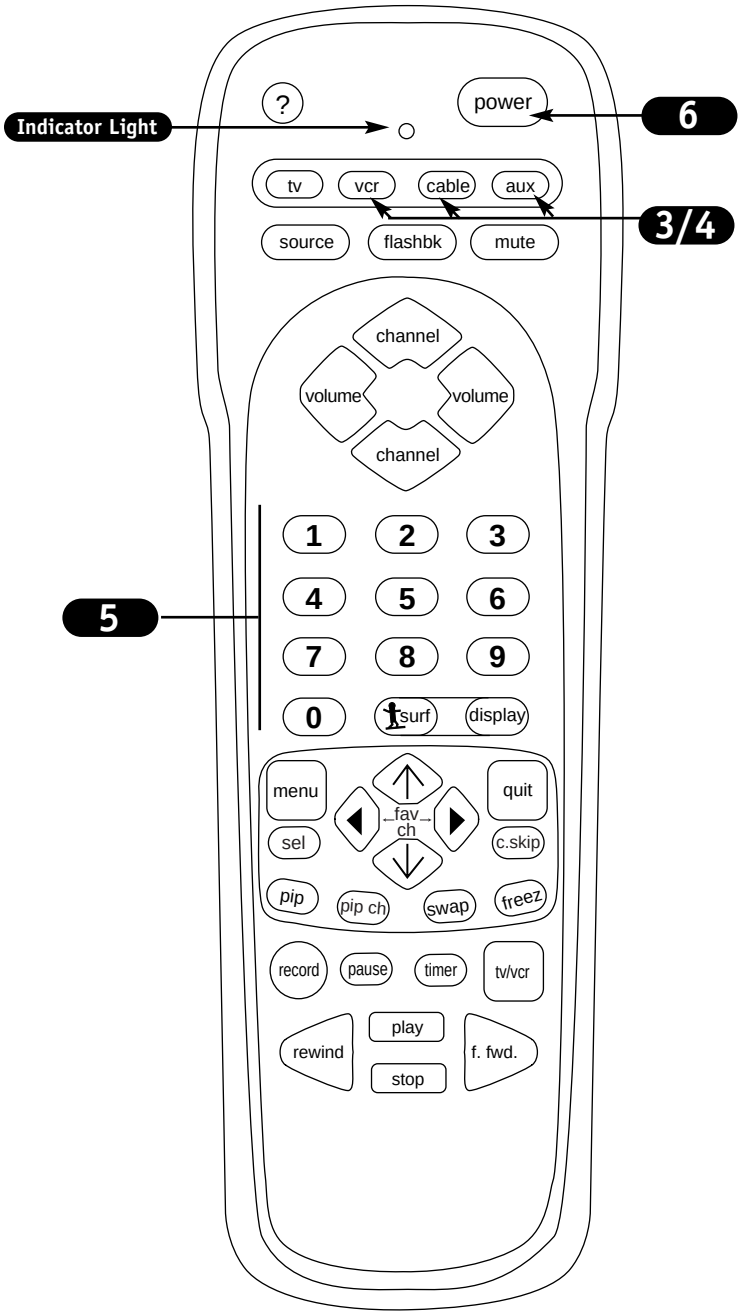
3 Press and release the mode button (VCR, Cable, Aux) for the device you wish to program. This will switch the remote to that mode.

4 Press and hold the mode button for the device you want to program until the Indicator Light turns on.

5 While holding down the mode button, enter the two digit programming code through the number keypad. The indicator light will flash three times and turn off if the code was accepted.

6 Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.

Not all devices will work with your Zenith remote control.



Product Brand Programming Codes

VCRs

Adventura 00
Aiko 08
Aiwa 00
Akai 01 48 49
American High . . . 22
Asha. 45
Audiovox 23
Beaumark 45
Bell & Howell 32
Brandt 43
Broksonic 33 34 42 51 52
Calix. 23
Canon 22
Capehart 06
Carver. 31
CCE 08 30
Citizen 08 23
Colt 30
Craig 18 23 30 45
Curtis Mathes . . . 01 22 47
Cybernex 45
Daewoo 06 08 16 38
Daytron 06
Dynatech. 00
Electrohome 23
Electrophonic 23
Emerx 07
Emerson 00 08 12 15 23 27 28 33 34 37 42 48 51 52
Fisher 18 20 32 46
Fuji 09 22
Funai 00
Garrard 00
General Electric . . 03 22 41 47
Goldstar 23 24 44
Gradiente. 00
Harley Davidson . . 00
Harman/Kardon. . . 24
Harwood 30
Headquarter 17
Hi-Q 18
Hitachi 00 01 02 03 04
Jensen 01
JVC 01 13 26
KEC 08 23
Kenwood 01 24 26
KLH 30
Kodak 22 23
Lloyd 00
Lloyd's 27
Logik 30
LXI. 23
Magnavox 14 22 29 31 35
Magin 45
Marantz. 22 31
Marta 23
Matsushita. 22
MEI 22
Memorex 00 14 17 18 19 22 23 32 45
MGA 15 48
MGN Tech 45
Minolta 02 04
Mitsubishi 15 26 40 48 49
Motorola 19 22
MTC 00 45
Multitech. 00 30
NEC 01 05 24 26 32
Nikko 23
Noblex 45
Olympus 11 22
Optimus 19 23 32
Orion 51
Panasonic 10 11 22 39 53
Penny 02 05 22 23 24 45 46
Pentax 02 03 04
Philco. 22
Philips 22 29 31
Pilot. 23
Pioneer 26
Portland 06
Protec. 30
Pulsar 14
Quarter 17
Quartz. 17
Quasar 22
Radio Shack 00 23
Radix 23
Randex 23
RCA 02 03 04 35 41 47
Realistic 00 17 18 19 20 22 23 32 45
Ricoh 21
Runco 14
Samsung 16 45
Sanky 14 19
Sansui 01 26
Sanyo 17 18 32 45
Scott 15 16 33 34 37 42
Sears 02 04 17 18 20 22 23 32 46
Sharp 19
Shintom 30
Shogun 45
Shinger 30
Sony 07 09 21 22
STS. 02
Sylvania 00 15 22 29 31
Symphonic 00
Tatung 01
Teac 00 01
Technics 22 39
Teknika 00 22 23
Telefunken 43
TMK 27 45
Toshiba 15 16 20 37
Totevision 23 45
Unitech 45
Vector. 16
Vector Research . . 05 24
Video Concepts . . . 05 16 48
Videosonic 45
Wards 00 02 18 19 22 30 35 37 45 47
XR 1000 . . . . . 00 22 30
Yamaha 24
Zenith 09 14 21 55

Cable Satellite

ABC 00 07 08 18 19 21 37 38 53
Antronix 40
Archer. 12 25 40
Belcor. 33
Cable Star 33
Century 12
Citizen 12
Colour Voice 31 45
Contronics 26 29
Contec 22
Dae Ryung 21
Eastern 15
Echostar(SAT) 65
Electricord 32
Everquest. 56
Focus 57
Garrard 12
GC Electronics. . . . 33 40
Gemini 04 39 44 56
Goldstar 11 26
General Instrument 00 13
Hamlin 03 09 14 23 24
Hitachi 00
Hitachi (SAT) 61
Hughes (SAT) 66
Hytex 37
Jasco 12
Jerrold 00 08 13 38 53 55 56
Macom 36
Magnavox 16
Memorex 02
Movie Time 30 32 34
NSC 30 34 39
Oak 22 37 50
Panasonic 02 10 49
Panasonic (STB) . . 70
Paragon 02
Philips 12 16 17 27 31 43 44 45 47
Pioneer 06 11 20
Popular Mechanics. 57
Pulsar 02
RCA 49
RCA (SAT) 62
RCA (STB) 71
Realistic 40
Recoton 57
Regal 03 09 23 35
Regency 15
Rembrandt 00 39
Runco 02
Samsung 11 26
Samsung (STB) . . . 73
Scientific Atlanta 18 21 42 48
Signal. 26 56
Signature. 00
SL Marx. 26
Sony (SAT). 63
Sprucer 01 49
Starcom. 38 53 56
Stargate 26 56
Starquest. 56
Starsight 58 59
Sylvania 19
Teleview 26
Texscan 19
Tocom. 07 28 55
Toshiba 02
Tusa 56
TV 86 30
Unika 12 40
United Artists. . . . 37
United Cable 53
Universal 12 25 32 33 35 40
Videoway. 51
Viewstar 16 29 30 41
Zenith. 02 52 60 67 72
Zenith (STB). 72
Zentek 57

STB = Set top Boxes
SAT = Satellite Receivers

Product Brand Programming Codes

DVD Players

Denon 03
Hitachi 06 80
JVC 00
Kenwood 03
Magnavox 04
Mitsubishi 09
Panasonic 03
Pioneer 02
Philips 05
RCA (Proscan). . . . 08
Sony. 01
Toshiba 04
Yamaha 07
Zenith. 04 10

CD Players

Adcom 11
Aiwa. 12
California Audio . . 13
Carver. 12
Denon. 14
DKK 15
Emerson 11
Fisher 16
Genexxa 17
Hitachi 11 17 18 19 20 21 22
JVC 23
Kenwood 16 24 25
Krell 12
Magnavox 12
Marantz. 12 13
MCS 13
Mission 13
NSM 12
Onkyo. 26
Optimus 15 17 27
Panasonic 13
Philips 12
Pioneer 17 27
Proton 12
QED 12
Quasar 13
RCA 11 31
Realistic 11
Rotel 12
SAE 12
Sansui. 12
Scott 11
Sony. 15 28
Technics 13 29 30
Victor 23

Tape Players

Aiwa. 42 43
Hitachi 32 33 34 35
Jerrold 44 45
JVC 36
Kenwood 37
Optimus 38
Panasonic 39
Pioneer 38
Scientific Atlanta . 46
Sony. 40 41 42 43
Starcom. 44
Wards 38

Audio Amplifiers

Aiwa. 51 52
Carver. 47 52 53 54
Casio 55
Clarinette 55
Denon. 56
Fisher 54 57
Hitachi 58
JVC 59
Kenwood 60 61 63 64
Lloyd's 55
Magnavox 47 52 55
Marantz. 47 52 62
MCS 62
Modulaire 55
Onkyo. 55
Optimus 49 50 57 61 66
Panasonic 62
Penney 55
Philips 47 52
Pioneer 49 50 66 67 68
Quasar 62
Realistic 55
Sansui. 52
Sanyo 57
Sharp 61
Sony. 51
Technics 48 62 69 70 71
Victor 59
Wards 49 51 52 54 66 67
Yamaha 61 72
Yorx 55

Zenith Remote Key Functions

What the remote keys do in TV and the other operating modes

Key Names **Default Codes** Other Brand Codes	TV Mode	VCR Mode **Zenith VCR** Other VCR Brands	Cable Mode **Zenith Cable Boxes** Other Cable Brands Satellite Brands Set Top Box Brands	AUX Mode **Zenith DVD** Other DVD Brands Audio CD, Video Disc, Audio Tape Decks, Audio Tuners/Amplifiers
?	TV Help	N/A	Sat/Stb Help	DVD Set Up
POWER	TV On/Off	VCR On/Off	Cable/Sat On/Off	Aux On/Off
TV	Selects TV mode	Selects TV mode	Selects TV mode	Selects TV mode
VCR	Selects VCR mode	Selects VCR mode	Selects VCR mode	Selects VCR mode
CABLE	Selects Cable mode	Selects Cable mode	Selects Cable mode	Selects Cable mode
AUX	Selects Aux mode	Selects Aux mode	Selects Aux mode	Selects Aux mode
SOURCE	Selects TV Sources	Selects TV Sources	Selects TV Sources	Selects TV Sources
FLASHBK	TV Flashback	VCR Tape Info	Cbl/Sat/Stb Flashback	Return
MUTE	TV Mute	TV Mute	TV Mute	TV Mute/Sound
CHANNEL UP	TV Channel Up	VCR Channel Up	Cbl/Sat/Stb Channel Up	Aux Skip>>
CHANNEL DOWN	TV Channel Down	VCR Channel Down	Cbl/Sat/Stb Channel Down	Aux Skip<<
VOLUME (RIGHT)	TV Sound Louder	TV Sound Louder	TV Sound Louder	TV Sound Louder
VOLUME (LEFT)	TV VSound Quieter	TV Sound Quieter	TV Sound Quieter	TV Sound Quieter
1	TV Digit 1	VCR Digit 1	Cbl/Sat/Stb Digit 1	Aux Digit 1
2	TV Digit 2	VCR Digit 2	Cbl/Sat/Stb Digit 2	Aux Digit 2
3	TV Digit 3	VCR Digit 3	Cbl/Sat/Stb Digit 3	Aux Digit 3
4	TV Digit 4	VCR Digit 4	Cbl/Sat/Stb Digit 4	Aux Digit 4
5	TV Digit 5	VCR Digit 5	Cbl/Sat/Stb Digit 5	Aux Digit 5
6	TV Digit 6	VCR Digit 6	Cbl/Sat/Stb Digit 6	Aux Digit 6
7	TV Digit 7	VCR Digit 7	Cbl/Sat/Stb Digit 7	Aux Digit 7
8	TV Digit 8	VCR Digit 8	Cbl/Sat/Stb Digit 8	Aux Digit 8
9	TV Digit 9	VCR Digit 9	Cbl/Sat/Stb Digit 9	Aux Digit 9
0	TV Digit 0	VCR Digit 0	Cbl/Sat/Stb Digit 0	Aux Digit 0
SURF	Toggle Key Press PIP, Surf-single/multiple Press FREEZ, Surf-freeze/strobe	N/A	SAT/STB Dash "-"	Enter
DISPLAY	TV Display	VCR Enter	Cbl/Sat/Stb Enter	Aux Display
MENU	TV Menu	VCR Menu	Cbl/Sat/Stb Menu	Aux Menu/Disc Menu
UP ARROW	TV Select Up	VCR Select Up	Cbl/Sat/Stb Up Arrow	Aux Up Arrow
DOWN ARROW	TV Select Down	VCR Select Down	Cbl/Sat/Stb Down Arrow	Aux Down Arrow/Closed Cptn
LEFT ARROW	TV Adjust Left/Fav. Ch.	VCR Adjust Left	Cbl/Sat/Stb Left Arrow	Left Arrow
RIGHT ARROW	TV Adjust Right/Fav. Ch.	VCR Adjust Right	Cbl/Sat/Stb Right Arrow	Right Arrow
QUIT	TV Menu Quit	VCR Quit	Cbl/Sat/Stb Quit	Aux Resume
SELECT	TV Menu select	VCR Memory	CBL/SAT pg down	Zoom
C. SKIP	Channel Skip	VCR am/pm	N/A	Aux Clear
PIP	TV PIP On/Off	VCR+	CBL/SAT Day Up	Aux Marker
PIP CH.	TV PIP Channel Tuning	VCR Display	SAT/STB Signal	Aux Marker Search
SWAP	TV PIP Swap	VCR Channel Map	CBL/SAT Day Down	Repeat A-B
FREEZ	TV PIP Freeze/Strobe	VCR Search	CBL/SAT Page Up	Repeat-chap
TIMER	TV Timer	VCR Timer	CBL/SAT Date Code	N/A
TV/VCR	TV Tuner or VCR Tuner	TV Tuner or VCR Tuner	Cbl/Sat/Stb Info	Aux Open Close
RECORD	VCR Record	VCR Record	Cable/Sat Buy Stb Aspect/Ratio	Aux Angle
PAUSE	VCR Pause	VCR Pause	Cbl/Sat/Stb Guide	Aux Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	Aux Scan<<
PLAY	VCR Play	VCR Play	VCR Play	Aux Play
STOP	VCR Stop	VCR Stop	VCR Stop	Aux Stop/Eject
F. FWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	Aux Scan>>

References: 924-10092 MBR3476Z

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the power cord before you begin any cleaning.

SCREEN CLEANING

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet.
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Entertainment Machine on.

WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your Entertainment Machine before leaving.

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your Entertainment Machine, consult the Troubleshooting guide on the following pages.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left sitting for too long, they can leave a permanent impression on the picture tube. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.

If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.

Troubleshooting

Some quick and easy tips to fixing problems yourself

Problem	Possible Solution(s)
Snowy picture and unclear sound.	• Check your antenna connection or location. • Check your cable input. • Check to see if the TV/VCR button on your VCR has the TV selected.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Check your cable input. • Make sure the cable from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and unclear sound.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equiment.* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed? • Make sure your speakers are turned on under the Audio menu. • If your audio mode is set to SAP, that channel may not have a SAP program.
No picture and unclear sound.	• Press source on your remote, make sure you have selected the right source you want to watch. • Are you in TV or cable tuning mode, and should be in the other? • Are output channels on all A/V equipment on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	• Is the AC power-cord plugged in? • Does AC power outlet work? (Test it by plugging in something else or try another outlet.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu.
Picture has two horizontal black bars, one on top and one on the bottom.	• Your program is in letter box. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars.

Some quick and easy tips to fixing problems yourself

Problem	Possible Solution(s)
Not able to add a 3 digit channel number.	• Press the 1st digit of your channel number, wait until 2 dashes appear to the right of your number than add the other two digits.
Not able to lock video lock feature in parental control.	• Exit out of Parental Control menu. Press the source button on your remote and change the source to Video 1. Then you can reenter the parental control menu and lock the video lock. You must do this same process to unlock the video lock.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.
Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine for a few minutes, then plug it back in.
No picture or sound when any non-cable source is selected.	• Check to see if the source equipment has been turned on. Make sure that the connections are secure on the back of your Entertainment Machine and on the source equipment.
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Look in the Audio mode menu to see if all the settings are correct. • You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.
The PIP inset is black or lacks contrast.	• You might want to adjust the PIP picture settings under the PIP menu. • Check that all the wires are connected properly. • Check to see if your input source for PIP is set correctly.
The PIP inset is "snow" when the source is Ant/Cable 1.	• Look to see if the TV/VCR button on your VCR has the TV selected.
Time is incorrect.	• Make sure the time was set initially. Probably power was lost.
SURF PIP mode does not work.	• Make sure the TV is tuned to ANT 1 input. • Make sure Parental Control Ratings are not locked.

206-3597-A

A complete list of definitions for words found in this guide

75 OHM RF CABLE The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

A/V CABLES Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

ADD This function lets you add new channels to the list that you'll scroll through when using your remote.

AMPLIFIER An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

ANTENNA The physical receiver of television signals sent over the air.

CAPTIONS A form of subtitling that writes out the dialog for your program.

CONVERGENCE This option lets you correct for color separation in your picture.

DELETE This function lets you remove channels that you don't watch from the list you'll scroll through.

ICON A small graphic item on your screen that represents a function or menu item.

INPUT Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.

MODE The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling.

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

A complete list of definitions for words found in this guide

SECOND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.
SOURCE	The term for the equipment that provides audio and video information to your Entertainment Machine. Antenna, VCR, DVD players, or Cable Boxes are examples of sources.
STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
TEXT	Arbitrary text not related to the program.
TUNER	Any device that picks up broadcast signals and turns them into picture and sound.

Notes

Recommended Video Accessories

INDOOR AMPLIFIED ANTENNA

Receive Local programming NOT available on your Satellite system!!! Perfect backup antenna for cable outages. Enhanced quality picture and stereo sound in weak signal areas.

- Amplified VHF/UHF/FM Antenna includes 4 feet of 75 ohm cable for easy hookup.

ATS 775 **ONLY $34.95** PLUS $6.95 SHIPPING & HANDLING

WIRELESS STEREO HEADPHONES

Watch your favorite show without disturbing the household! Completely cordless Infared technology for clarity!!

- Works with most TVs, VCRs, and Audio Devices
- Small, high-power Transmitter with One Master Volume Control
- Microphone Hookup Option for TVs without Audio Output
- Deluxe, Extra-Large, Soft Cushion Ear Pads

ZEN 912 **ONLY $59.99** PLUS $6.95 SHIPPING & HANDLING

zenith

ORDER TODAY!
CALL OR FAX TOLL-FREE
1.800.255.6790
Fax 1.888.693.6484
email: parts.sales@zenith.com

Use Your Visa or MasterCard to Order

PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY

Your Zenith Warranty

Projection Color TV Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of one year from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance and Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH ELECTRONICS CORPORATION
Zenith Response Center

201 James Record Rd., Building 3,
Huntsville, AL 35824
Telephone (256) 772-1515
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat. 8:00 a.m.-5:00 p.m. CST
www.zenith.com

Projection TV Hotline:
1-800-365-1682

ZENITH CONSUMER SERVICES FACTORY OWNED SERVICE CENTERS

801 E. Roosevelt Rd
Lombard, IL 60148
(630) 705-2830

Home & Carry-in Service
Television/VCR
Parts and Accessories
PTV/Camcorders

201 James Record Rd.
Building 4
Huntsville, AL 35824
(256) 774-4025

Service Hours:
M-F 8-6, Sat 9-2
Will accept UPS Shipments

Additional Zenith Picture Tube Protection Plan Available
Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.

206-3597-A

" Copyright 2000, Zenith Electronics Corporation.